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100/300 AREA UNIT MANAGERS MEETING

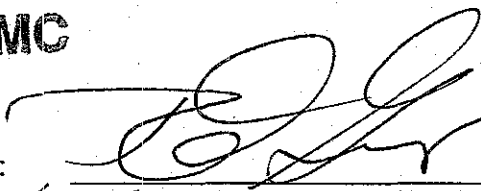
APPROVAL OF MINUTES

May 10, 2007

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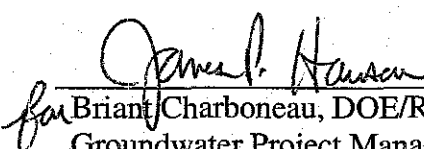


Date

6/14/07

for Kevin D. Bazzell, DOE/RL (A3-04)  
River Corridor Project Manager

APPROVAL:

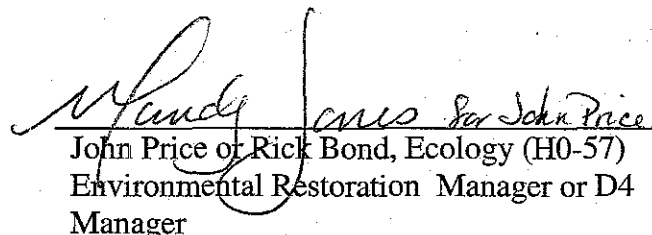


Date

6/14/07

for Briant Charboneau, DOE/RL (A6-33)  
Groundwater Project Manager

APPROVAL:

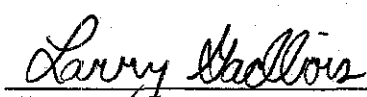


Date

June 14, 2007

John Price or Rick Bond, Ecology (H0-57)  
Environmental Restoration Manager or D4  
Manager

APPROVAL:

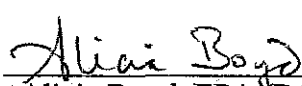


Date

June 14 2007

Larry Gadois, Rod Lobos, or Dennis  
Faulk, EPA  
(B1-46)  
100 Aggregate Area Unit Manager

APPROVAL:



Date

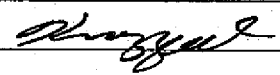
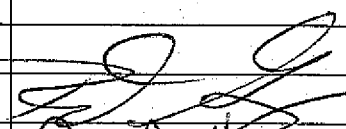
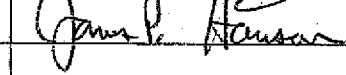
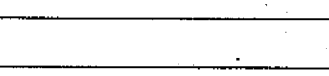
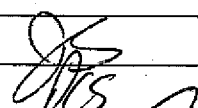
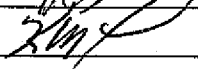



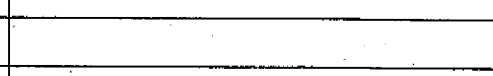
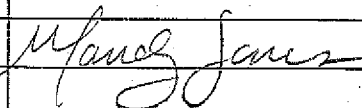
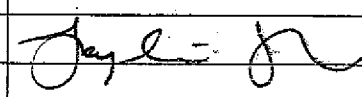
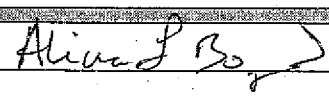
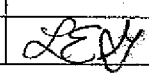
6/14/2007

Alicia Boyd, EPA (B1-46)  
300 Aggregate Area Unit Manager

# 100/300 AREA UNIT MANAGER MEETING

## ATTENDANCE AND DISTRIBUTION

May 10, 2007

NAME	E-MAIL ADDRESS	MSIN	COMP	SIGNATURE
Cook, Sylvia	Original +1 copy	H6-08	ADREC	N/A
Bazzell, Kevin D	Kevin_D_Bazzell@rl.gov	A3-04	DOE	
Charboneau, Briant L	Briant_L_Charboneau@rl.gov	A6-33	DOE	
Clark, Clifford E	Clifford_E_Cliff_Clark@rl.gov	A5-15	DOE	
Guercia, Rudolph F	Rudolph_F_Rudy_Guercia@rl.gov	A3-04	DOE	
Hanson, James P	James_P_Hanson@rl.gov	A5-13	DOE	
Hildebrand, R Doug	R_D_Doug_Hildebrand@rl.gov	A6-38	DOE	
Johnson, Vernon G	Vernon_G_Johnson@rl.gov	N/A	DOE	
Morse, John G	John_G_Morse@rl.gov	A6-11	DOE	
Robertson, Owen	Owen_Jr_Robertson@rl.gov	A3-04	DOE	
Sands, John P	John_P_Sands@rl.gov	A3-04	DOE	
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Thompson, Mike	K_M_Mike_Thompson@rl.gov	A6-38	DOE	
Tortoso, Arlene C	Arlene_C_Tortoso@rl.gov	A6-38	DOE	
Westover, Kent R	Kent_R_Westover@rl.gov	A3-04	DOE	
Zeisloft, Jamie	Jamie_Zeisloft@rl.gov	A3-04	DOE	
Ayres, Jeffrey M	JAYR461@ECY.WA.GOV	H0-57	ECO	
Bond, Fredrick W	FBON461@ECY.WA.GOV	H0-57	ECO	
Goswami, Dib	DGOS461@ECY.WA.GOV	H0-57	ECO	
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Jones, Mandy	MJON461@ECY.WA.GOV	H0-57	ECO	
Price, John	JPRI461@ECY.WA.GOV	H0-57	ECO	
Rochette, Elizabeth	BROC461@ECY.WA.GOV	H0-57	ECO	
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Smith-Jackson, Noel	NSMI461@ECY.WA.GOV	H0-57	ECO	
Vanni, Jean	Jvan461@ECY.WA.GOV	H0-57	ECO	
Whalen, Cheryl	CWHA461@ECY.WA.GOV	H0-57	ECO	
Boyd, Alicia	BOYD.ALICIA@EPA.GOV	B1-46	EPA	
Einan, Dave	EINAN.DAVID@EPA.GOV	B1-46	EPA	
Faulk, Dennis A	FAULK.DENNIS@EPA.GOV	B1-46	EPA	
Gadbois, Larry E	GADBOIS.LARRY@EPA.GOV	B1-46	EPA	

## **100 & 300 AREA UNIT MANAGER MEETING MINUTES**

**Groundwater, Source Operable Units, Facility (D4 and ISS), and End State and Final Closure**

**May 10, 2007**

**Washington Closure Hanford (WCH) Building, 2620 Fermi Drive, Richland, Washington**

### **ADMINISTRATIVE**

- Next Unit Manager Meeting (UMM) - The next meeting will be held June 14, 2007 at the Washington Closure Hanford (WCH) Office Building, 2620 Fermi Avenue, room C209.
- Attendees/Delegations - Attachment A is the list of attendees. Representatives from each agency were present to conduct the business of the Unit Managers Meeting. Attachment B documents any delegations received from the regulatory agencies.
- Approval of Minutes - The April 12, 2007 meeting minutes were approved by the U.S. Environmental Protection Agency (EPA), Washington State Department of Ecology (Ecology), and U.S. Department of Energy, Richland Operations Office (RL).
- Action Item Status - Status of action items was performed, and updates provided (Attachment C).
- Agenda: Attachment D is the meeting agenda.

### **EXECUTIVE SESSION (Tri-Parties Only)**

No executive session was held.

### **100/300 AREA GROUNDWATER**

Attachment 1 provides a status or information. No issues were identified.

Action: Attachment 2 documents the submittal of the draft, "Sampling and Analysis Instruction for Investigating Chromium Groundwater Contamination in the 600 Area Between 100-D and 100-H," to Ecology for review.

Agreement: Attachment 3 documents approval from EPA on the "Waste Management Plan for the 300-FF-5 Operable Unit: Revised Monitoring List (Appendix A Well List)," DOE/RL-2000-56, Rev. 1.

### **GROUNDWATER/SOURCE OPERABLE UNIT INTEGRATION**

Attachment 4 provides a draft "River Corridor Completion Strategy" along with a flow chart describing the key work activities and their interrelationship. EPA briefly summarized the strategy and asked for comments and feedback by the next UMM. No issues were identified, no agreements were documented, and no actions were documented.

### **100/300 AREA FIELD REMEDIATION CLOSURE**

Attachments 5, 6, 7, 8, 9, and 10 provide a status or information for various projects in the 100/300 Area Field Remediation (FR) Project. Attachment 5 provides the revised ecological risk assessment process

along with the original version for comparison and discussion. Attachment 6 covers the 100-N; Attachment 7 is a draft proposal to close out action item 100-132 regarding the sampling approach for tritium due to evapotranspiration. Attachment 8 covers sampling and design. Attachment 9 covers 300-FF-2. Attachment 10 covers 100-B/C Area. Attachment 11 documents an action. No issues were identified, and no agreements were documented.

Action: RL will respond to Ecology's electronic mail message sent on April 19, 2007 regarding the 126-D-1 Ash Pit (See Attachment 11).

### **300 AREA FIELD REMEDIATION CLOSURE**

No issues were identified, no agreements were documented, and no actions were documented.

### **DEACTIVATION, DECONTAMINATION, DECOMMISSION, DEMOLITION (D4)**

Attachment 12 provides a status or information for the 300 Area, while Attachment 13 provides a status or information for the 100 Area. No issues were identified, and no actions were documented.

Agreement: Attachment 14 documents agreement from Ecology and EPA on allowing disposal of the MO-829 mobile office trailer located in the 100-D Area.

### **INTERIM SAFE STORAGE (ISS)**

No issues were identified, no agreements were documented, and no actions were documented.

### **ENVIRONMENTAL RESTORATION DISPOSAL FACILITY (ERDF)**

No issues were identified, no agreements were documented, and no actions were documented.

### **END STATE AND FINAL CLOSURE PROJECT**

Attachment 15 provides a status or information. No issues were identified, and no actions were documented.

Agreement: Attachment 16 documents agreement from Ecology to analyze for nitrates in vegetation at various locations to support the Inter-Areas Component of the River Corridor Baseline Risk Assessment.

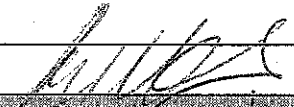
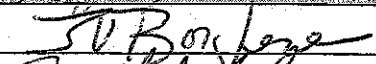
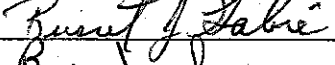
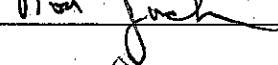

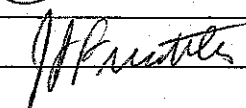


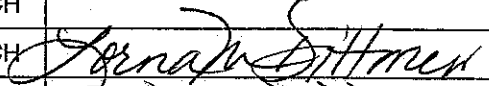
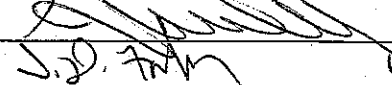
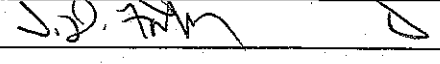
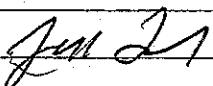
Action: Attachment 17 is a summary of the approach and resources that are available to evaluate remedial action costs in support of developing the Remedial Action Reports. This closes out action item 100-125.

### **SPECIAL TOPICS**

No special topics were discussed. No issues were identified, no agreements were documented, and no actions were documented.



## **Attachment A**

Lobos, Rod	LOBOS.ROD@EPA.GOV	B1-46	EPA	
Borghese, Jane V	Jane_V_Borghese@rl.gov	E6-35	FH	
Fabre, Russel J	Russel_J_Fabre@rl.gov	E6-35	FH	
Jackson, Ron	Ronald_L_Jackson@rl.gov	E6-35	FH	
Piippo, Rob	Robert_E_Piippo@rl.gov	H8-12	FH	
Winterhalder, John A	John_A_Winterhaider@rl.gov	E6-35	FH	
Dresel, Evan	Evan.dresel@pnl.gov		PNNL	
Fruchter, Jonathan S	john.fruchter@pnl.gov	K6-96	PNNL	
Hartman, Mary J	mary.hartman@pnl.gov	K6-96	PNNL	
Luttrell, Stuart P		K6-96	PNNL	
Peterson, Robert E	robert.peterson@pnl.gov	K6-75	PNNL	
Cimon, Shelly	scimon@oregontrail.net		Oregon	
Lilligren, Sandra	sandra@nezperce.org		TRIBES	
Bignell, Dale	Dale.Bignell@wch-rcc.com	H4-25	WCH	
Buckmaster, Mark A	mark.buckmaster@wch-rcc.com	X9-07	WCH	
Callison, Stacey W	stacey.callison@wch-rcc.com	X9-07	WCH	
Carlson, Richard A	richard.carlson@wch-rcc.com	X4-08	WCH	
Clapper, Nicholas	Nicholas.clapper@wch-rcc.com	X3-16	WCH	
Clark, Steven W	steven.clark@wch-rcc.com	H4-23	WCH	
Corpuz, Franklin M	franklin.corpuz@wch-rcc.com	L6-06	WCH	
Darby, John W	john.darby@wch-rcc.com	L6-06	WCH	
DeLozier, Mary P (Fran)	fran.delozier@wch-rcc.com	H4-22	WCH	
Dieterle, Steven E	steven.dieterle@wch-rcc.com	L1-04	WCH	
Dietz, Linda A	linda.dietz@wch-rcc.com	H4-22	WCH	
Dittmer, Lorna M	lorne.dittmer@wch-rcc.com	H4-23	WCH	
Donnelly, Jack W	jack.donnelly@wch-rcc.com	H4-22	WCH	
Fancher, Jonathan D (Jon)	jon.fancher@wch-rcc.com	X9-08	WCH	
Gano, Kenneth A (Ken)	kenneth.gano@wch-rcc.com	H4-21	WCH	
Golden, James W	james.golden@wch-rcc.com	X4-08	WCH	
Hadley, Karl A	karl.hadley@wch-rcc.com	X0-18	WCH	
Hedel, Charles W	charles.hedel@wch-rcc.com	H4-22	WCH	
Hulstrom, Larry C	larry.hulstrom@wch-rcc.com	H4-22	WCH	
Koegler, Kim J	kim.koegler@wch-rcc.com	L1-07	WCH	
Landon, Roger J	roger.landon@wch-rcc.com	H4-21	WCH	
LaRue, Deena N	deena.larue@wch-rcc.com	H4-15	WCH	
Lerch, Jeffrey A	jeffrey.lerch@wch-rcc.com	H4-22	WCH	



## **Attachment B**

## Donnelly, Jack W

---

**From:** Price, John (ECY) [Jpri461@ECY.WA.GOV]  
**Sent:** Wednesday, May 09, 2007 7:58 AM  
**To:** Donnelly, Jack W; Ayres, Jeffrey M; Bazzell, Kevin D; Bignell, Dale T; Bond, Fredrick W; Borghese, Jane V; Boyd.Alicia@epamail.epa.gov; Brosee, Manfred N; Buckmaster, Mark A; Callison, Stacey W; Carlson, Richard A; Charboneau, Briant L; scimon@oregontrail.net; Clark, Clifford E; Clark, Steven W; Corpuz, Franklin M; Darby, John W; DeLozier, Mary P (Fran); Dieterle, Steven E; Dittmer, Lorna M; Dresel, P Evan; einan.dave@epamail.epa.gov; Fabre, Russel J; Fancher, Jonathan D (Jon); faulk.dennis@epamail.epa.gov; Fruchter, Jonathan S; Gadbois, Larry E; Gano, Kenneth A (Ken); Golden, James W; Goswami, Dib; Guercia, Rudolph F; Hadley, Karl A; Hanson, James P; Hartman, Mary J; Hedel, Charles W; Huckaby, Alisa D; Hulstrom, Larry C; Jackson, Ron; Johnson, Vernon G; Jones, Mandy E; Koegler, Kim J; Landon, Roger J; LaRue, Deena N; Lerch, Jeffrey A; sandral@nezperce.org; lobos.rod@epamail.epa.gov; Ludowise, John D; Miller, Larry R (Rex); Morse, John G; Obenauer, Dale F; Ovink, Roger W; Parnell, Scott E; Peterson, Robert E; Piippo, Rob; Proctor, Megan L; Queen, Jackie M; Robertson, Owen C; Rochette, Elizabeth; Sands, John P; Saueressig, Daniel G; Shea, Jacqueline (ECY); Smet, Ann K; Smith, Chris; Smith, Chris; Smith-Jackson, Noe'l; Strom, Dean N; Swartz, Joseph M (Mike); Thompson, Mike; Thomson, Jill E; Tortoso, Arlene C; Vanni, Jean; Vedder, Barry L; Weiss, Stephen G; Westover, Kent R; Winterhalder, John A; Yasek, Donna M; Zeisloft, Jamie  
**Subject:** RE: 100/300 Area UMM May 10, 2007

I will be unable to attend the 100/300 UMM On May 10, 2007. I delegate my TPA Project Manager authority to Mandy Jones in my absence. She has the necessary experience and capabilities to fulfill this role.

-----Original Message-----

**From:** Donnelly, Jack W [mailto:jack.donnelly@wch-rcc.com]  
**Sent:** Wednesday, May 09, 2007 7:50 AM  
**To:** Ayres, Jeff (ECY); Bazzell, Kevin D; Bignell, Dale T; Bond, Rick (ECY); Borghese, Jane V; Boyd.Alicia@epamail.epa.gov; Brosee, Manfred N; Buckmaster, Mark A; Callison, Stacey W; Carlson, Richard A; Charboneau, Briant L; scimon@oregontrail.net; Clark, Clifford E; Clark, Steven W; Corpuz, Franklin M; Darby, John W; DeLozier, Mary P (Fran); Dieterle, Steven E; Donnelly, Jack W; Dittmer, Lorna M; Dresel, P Evan; einan.dave@epamail.epa.gov; Fabre, Russel J; Fancher, Jonathan D (Jon); faulk.dennis@epamail.epa.gov; Fruchter, Jonathan S; Gadbois, Larry E; Gano, Kenneth A (Ken); Golden, James W; Goswami, Dib (ECY); Guercia, Rudolph F; Hadley, Karl A; Hanson, James P; Hartman, Mary J; Hedel, Charles W; Huckaby, Alisa (ECY); Hulstrom, Larry C; Jackson, Ron; Johnson, Vernon G; Jones, Mandy (ECY); Koegler, Kim J; Landon, Roger J; LaRue, Deena N; Lerch, Jeffrey A; sandral@nezperce.org; lobos.rod@epamail.epa.gov; Ludowise, John D; Miller, Larry R (Rex); Morse, John G; Obenauer, Dale F; Ovink, Roger W; Parnell, Scott E; Peterson, Robert E; Piippo, Rob; Price, John (ECY); Proctor, Megan L; Queen, Jackie M; Robertson, Owen C; Rochette, Beth (ECY); Sands, John P; Saueressig, Daniel G; Shea, Jacqueline (ECY); Smet, Ann K; Smith, Chris; Smith, Chris; Smith-Jackson, Noe'l (ECY); Strom, Dean N; Swartz, Joseph M (Mike); Thompson, Mike; Thomson, Jill E; Tortoso, Arlene C; Vanni, Jean (ECY); Vedder, Barry L; Weiss, Stephen G; Westover, Kent R; Winterhalder, John A; Yasek, Donna M; Zeisloft, Jamie  
**Subject:** 100/300 Area UMM May 10, 2007

Good morning:

Attached is the draft agenda for the Unit Manager Meeting scheduled for tomorrow, May 10, 2007 from 1:00 p.m. to 4:30 p.m. at 2620 Fermi Avenue (Washington Closure Hanford LLC Building) in Room C209. Also attached is the action item list. For those having action items please be prepared to provide a status. The open actions item will be provided in a handout for tomorrow's meeting.

There are no executive session topics for tomorrow's meeting (at this time) so the meeting will start at 2:00 as previously scheduled.

For those who need to delegate authority and are unable to attend, please send your delegation for the minutes. Additionally, for those providing handouts and summaries

please bring extra copies.

Respectfully, Jack Donnelly  
372-9834

## **Attachment C**

## 100/300 Area UMM

## Action List

May 10, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-003	RL	K. Bazzell	Field Remediation Closure	EPA and Ecology request DOE prepare a schedule for cleanup of the 200-CW-3 waste sites listed in the 100 Area Remaining Site Record of Decision.	Open: 7/13/06; Action: Closed 12/14/2006.
X	100-004	WC	L. Dittmer	Sample Design and Cleanup Verification	Present an errata sheet to provide consistent tritium cleanup levels between the 100 Area Burial Ground SAP and the 100 Area SAP.	Open: 7/31/06; Action: Closed 11/9/2006.
X	100-005	RL	K. Bazzell	General RCCC	EPA and Ecology request a meeting with the DOE person who can approve/disapprove language in the 100 Area Remedial Design Report. (Action associated with a proposed revision to the RDR to include descriptive language on ecorisk screening.)	Open: 7/13/06; Action: Closed 11/9/2006.
O	100-005B	EPA	J. Zeisloft	General RCCC	Revise the 100 Area RDR to include more specific language on the methodology and process for conducting ecological risk screening during closeout process.	Open: 9/14/06; Action: Proposed language was provided, and is still under review. Further discussions are expected, but agreement may be close.
X	100-006	RL	J. Zeisloft	100-K Field Remediation	RL to provide EPA and Ecology a copy of the NorthWind Characterization Report for 118-K-1.	Open: 7/13/06; Action: Completed 10/26/06
X	100-007	RL	J. Zeisloft	100-K Field Remediation	RL provide EPA and Ecology the status of the AMEC Report on 118-K-1.	Open: 7/13/06; Closed: 8/10/06 Action did not occur



## 100/300 Area UMM

## Action List

May 10, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-008	RL	K. Bazzell	Field Remediation	Provide WCH direction to evaluate other, existing, options for handling bottles containing liquids that are unearthed during remedial actions. Evaluate what is being done at other sites (Brookhaven; Sandia; DOE Lessons Learned website); evaluate how HAZM	Open: 9/14/06; Action: Completed 10/2/06
X	100-009	RL	R. Guercia	100-K D4	Send a copy of a building completion report (a quarterly report prepared to satisfy the DOE Order to take a facility "off the books.") as an alternate format of retrievable documentation.	Open: 9/14/06; Action: Complete 9/15/06
X	300-002	PN	B. Peterson M. Hartman	300-FF-5 Groundwater	Invite Jacqui Shea (Ecology), Alica Huckaby (Ecology), Alicia Boyd (EPA) to the September 300 Area aquifer tube sampling event.	Open: 7/13/06; Action: Completed 9/5/06
X	100-110	ECY	J. Price	100-H	John Price (Ecology) will send Kent Westover (RL) an email after looking at the information on the 116-H-4 table provided at the 10/12/06 UMM.	Open: 10/12/06; Action: Completed 10/13/06
X	100-111	RL	K. Westover	RCC General	RL shall propose a process for resolving sampling approaches where Ecology and RL differ, and multiple attempts at a technical level are exchanged without resolution.	Open: 10/12/06; Action: Ecology and RL agreed to close item; action closed 2/8/07.
X	100-112	RL	B. Charboneau	100-HR-3	RL will respond to Ecology's email request on the data and analysis request regarding the 100-HR-3 system.	Open: 10/12/06; Action: Data was provided, & Ecology is reviewing. On 4/12/07 this action was closed and a new action item generated (see action item 100- 133).

## 100/300 Area UMM

## Action List

May 10, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-113	ECY	J. Price	100-HR-3	John Price will respond to RL's request to submit an annual report for the ISRM system versus a quarterly report. However, monthly data will still be sent to Ecology.	Open: 10/12/06; Action: Ecology approval documented in minutes. Completed 11/9/2006.
X	100-114	RL	B. Charboneau	Unknown	RL will send Ecology the schedule for the EM-22 Treatability Test Report	Open: 10/12/06; Action: Schedule entered into minutes. Completed 11/9/2006.
X	100-115	RL	B. Charboneau	100-D	RL will send Ecology the plans/actions for the 182-D Reservoir.	Open: 10/12/06; actions documented in minutes. Completed 11/9/2006.
X	100-116	RL	J. Zeisloft	100-D	RL and Ecology shall talk about the liquid removal from the 100-D-56 pipe.	Open: 10/12/06; Action: Completed 11/9/2006
X	100-117	ECY	J. Price	100-N	Ecology shall review the revegetation proposal for the 116-N-1 site and provide feedback.	Open: 10/12/06; Action: Proposal approved in minutes. Completed 11/9/2006.
X	100-118	ECY	J. Price	100-D	Ecology shall review the 100-D-56 chromium treatment plan	Open: 10/12/06; Action: Ecology submitted comments. Completed 11/9/2006.

## 100/300 Area UMM

## Action List

May 10, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	300-003	RL	C. Smith	300-FF-2	RL shall provide EPA with the contamination control measures to move the MO-905 trailer within the onsite area.	Open: 10/12/06; Action: Completed 10/18/2006
X	100-119	RL	J. Morse	100-HR-3	RL (John Morse) will set up a meeting with Ecology (John Price) on overall long-term picture for 100-HR-3.	Open: 11/9/06; Action: RL is scheduling a meeting in March 2007. On 4/12/07 this action was closed and a new action item generated (see action item 100-133).
X	100-120	RL	J. Morse	100-HR-3	RL (John Morse) will provide Ecology (Mandy Jones) with the 100-D well installation schedule, as well as the EM-22 Treatability Test well installation plans.	Open: 11/9/06; Action: RL to set up meeting in March 2007 to provide the schedule. On 4/12/07 this item was closed.
X	100-121	RL	J. Morse	100-FR-3	RL (John Morse) will provide EPA (Rod Lobos) with the Contaminates of Concern (COCs) plot for each well in 100-FR-3, including a list of wells sampled in October 2006 and those scheduled to be sampled in November 2006.	Open: 11/9/06; Action: Closed 12/14/2006
X	100-122	RL	J. Zeisloft	100-D	RL (Jamie Zeisloft) will set up a meeting with Ecology on the holistic 100-D characterization approach.	Open: 11/9/06; Action: Meeting was held; action closed 2/8/07.
X	100-123	RL	J. Zeisloft	100-D	RL (Jamie Zeisloft) will provide Ecology (Mandy Jones) with the overall 100-D project remediation schedule.	Open: 11/9/06; Action: Closed 12/14/2006

100/300 Area UMM  
Action List  
May 10, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	300-004	RL	C. Smith	618-10/11	RL (Chris Smith) will set up a meeting with EPA to discuss the M-16-67 milestone for 618-10/11 to ensure there are no issues with the design solution and completing the milestone.	Open: 11/9/06; Action: Closed 12/14/2006
O	100-124	RL	K. Westover	General RCC	RL to evaluate whether it endorses use of analogous sites for site closeout (proposed by WCH), and communicate its opinion to Ecology and EPA. As a first step, RL will set up a meeting to focus on a current example of a waste site being proposed for closeout using this approach.	Open: 12/14/06; Action: Remains Open
X	100-125	RL	K. Bazzell	General RCC	RL to meet with EPA and Ecology on what systems or processes are in place to track remedial action costs for waste site closeout. Remedial Action Closeout Reports will capture this information but EPA and Ecology want to hear an update since the development of the 300-FF-1 Remedial Action Report (DOE/RL-2004-74, Rev. 0).	Open: 12/14/06; Action: A summary was provided at the May 2007 UMM; closed 5/10/07.
X	100-126	RL	J. Morse	General RCC	RL (John Morse) will provide EPA with "DAVE" access.	Open: 12/14/06; Action: Closed 1/11/07
X	100-127	RL	C. Smith	100-B/C	RL (Chris Smith) will provide EPA with the spent nuclear fuel disposition schedule for 100-B/C.	Open: 12/14/06; Action: Closed 1/11/07
X	300-005	RL	R. Guercia	300 Area D4	RL shall provide EPA with status on the 324/327 building demolition strategy.	Open: 12/14/06; Action: Closed 1/11/07

## 100/300 Area UMM

## Action List

May 10, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	300-006	RL	R. Guercia	300 Area D4	The Tri-Parties will develop a process for closing out D4 actions where no known waste site is under the building, and no releases to soil are documented or expected based on existing data.	Open: 1/11/07; Action: RL will set up a meeting with EPA and Ecology to discuss. On 4/12/07 this item was closed.
O	100-128	RL	K. Westover	100-N	RL (Kent Westover) will follow up with Ecology (John Price) on the D4 work on structures and the removal of small section of inlet piping to 1301-N.	Open: 1/11/07; Action: At the 5/10/07, RL committed to schedule a meeting with Ecology.
X	100-129	RL	J. Morse	100-K	RL (John Morse) will provide EPA with a copy of "The KW Pump and Treat System Remedial Design and Remedial Action Work Plan, Supplement to the 100-KR-4 Groundwater Operable Unit Interim Action," DOE/RL-2006-52, Rev. 1.	Open: 1/11/07; Action: Closed 1/11/07
O	100-130	RL	J. Zeisloft	100 Areas	EPA and Ecology to discuss footnote in Cleanup Verification Packages/Remaining Site Cleanup Verification Packages (CVP/RSVPs) for immobile contaminants as related to the footnote stated in the Remedial Design Report/Remedial Action Work Plan for immobile contaminants.	Open: 1/11/07; Action: RL stated on 5/10/07 that this item remains open, and additional discussions are necessary.
X	100-131	RL	C. Smith	100 Areas	Ecology requests RL for an updated schedule on remediation designs and sampling work instructions through June 2009.	Open: 1/11/07; Action: Information provided; action closed 2/8/07.

## 100/300 Area UMM

## Action List

May 10, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
O	100-132	RL	C. Smith	100 Areas	RL will develop proposed changes to the verification sampling approach for tritium in soil.	Open: 2/8/07; Action: At the 5/10/07 UMM, a sampling proposal was presented for review and discussion. EPA requested RL to provide a basis for sampling 1 foot below the surface.
X	300-007	RL	C. Smith	300 Area	EPA requested a meeting on 618-7 to be scheduled, and to include the Washington State Department of Health.	Open: 2/8/07; Action: Meeting was held and this item was closed on 4/12/07.
O	100-133	RL	J. Hanson	100-HR-3	RL and Fluor Hanford will schedule a meeting with Ecology to decipher data trends, and future plans for the chromium plume at the 100-H reactor.	Open: 4/12/07; Action: At the 5/19/07 UMM, RL stated a meeting has been scheduled for May 22. Item remains open pending the meeting.
O	300-008	RL	R. Guercia	100/300 Area	RL shall develop the instructions for documenting D4 completions in the 100 and 300 Areas where no known waste site is under the building, and no releases to soil are documented or expected based on existing data. These instructions shall be added into the respective Removal Action Work Plans after review and approval from the respective lead regulatory agency for the specific Removal Action Work Plans in the 100 and 300 Areas.	Open: 4/12/07; Action: Ongoing action.

## 100/300 Area UMM

## Action List

May 10, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
O	300-009	RL	J. Sands	300 Area	RL will follow up with EPA on any past or future land evaluations of the southern 300 Area referred to as the "triangle area" where new construction is starting.	Open: 4/12/07; Action: Ongoing action.
O	100-134	RL	J. Zeisloft	100-D Area	RL will respond to Ecology's electronic mail message sent on April 19, 2007 regarding the 126-D-1 Ash Pit.	Open: 5/10/07; Action:

## **Attachment D**



100/300 Area Unit Manager Meeting  
May 10, 2007  
Washington Closure Hanford Building  
2620 Fermi Avenue, Richland, WA 99352  
Room C209  
1:00-4:30 p.m.

1:00 - 1:50 p.m.

Executive Session (Tri-Parties Only):

- o Cancelled - No items

2:00 p.m. - 2:20 p.m.

Administrative:

- o Approval and signing of previous meeting minutes (April 2007)
- o Update to Action Items List
- o Next UMM (06/14/2007, Room C209)

2:20 - 4:30 p.m.

Open Session: Project Updates:

- o 100/300 Area Groundwater (John Morse/Jane Borghese)
- o Groundwater/Source Integration
  - o Record of Decision Groupings (Larry Gadbois)
- o 100/300 Area Field Remediation and Closure (FR)
  - o Sampling and FR Design (Chris Smith/Lorna Dittmer/Rich Carlson)
  - o 100-N (Kent Westover/Scott Parnell)
  - o 300-FF-2 (Chris Smith/Scott Parnell)
  - o 618-10/11 (Chris Smith/Scott Parnell)
  - o 100-B/C (Chris Smith/Megan Proctor)
  - o 118-K-1 (Jamie Zeisloft/Dale Obenauer)
  - o 100-D (Jamie Zeisloft/Mark Buckmaster)
  - o 100-H (Kent Westover/Mark Buckmaster)
  - o 100-F (Chris Smith/Jon Fancher)
- o D4 100/300 Area (Rudy Guercia/Donna Yasek/Dan Saueressig)
- o Interim Safe Storage (ISS) (Chris Smith/Dan Saueressig/Karl Hadley)
- o Environmental Restoration Disposal Facility (Owen Robertson/Karl Hadley)
- o End State and Final Closure (John Sands/Jeff Lerch/Jill Thomson)
- o Special Topics

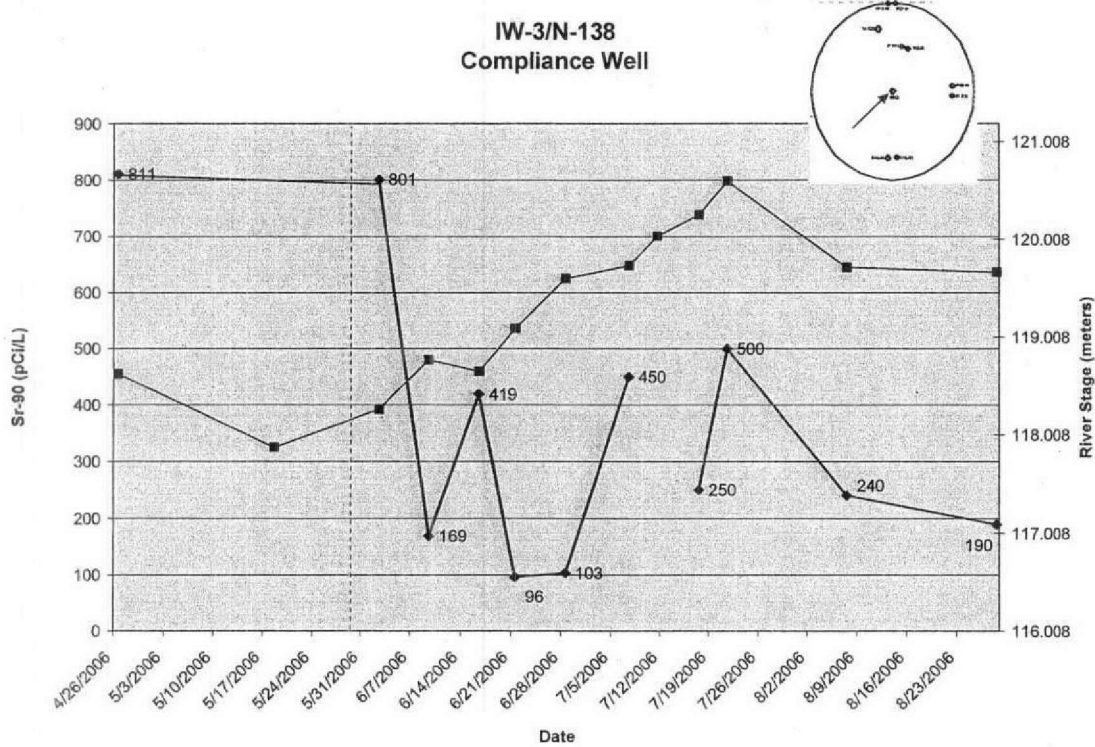
## **Attachment 1**

100/300 Areas Unit Managers Meeting  
May 10, 2007

**100-NR-2 Groundwater OU - Russ Fabre**

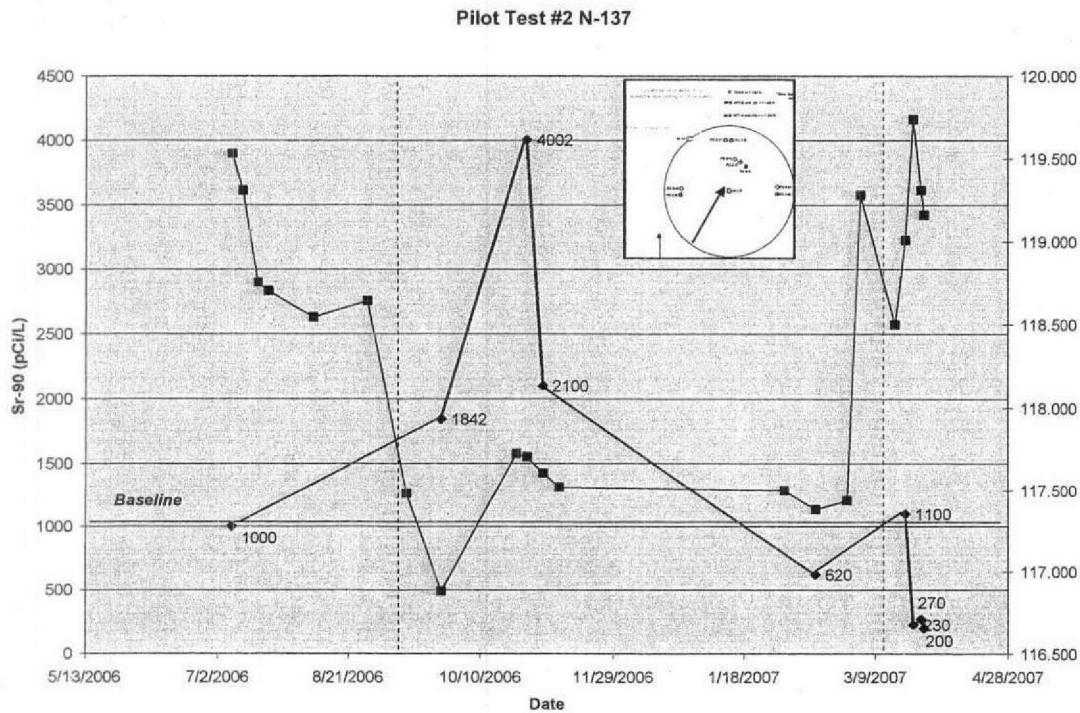
**Apatite Pilot Test #1 (199-N-138)**

- Sampling results from February 2007 indicate 190 pCi/L (baseline 801 pCi/L)
- Strontium-90 sequestration performance monitoring will continue bi-monthly.

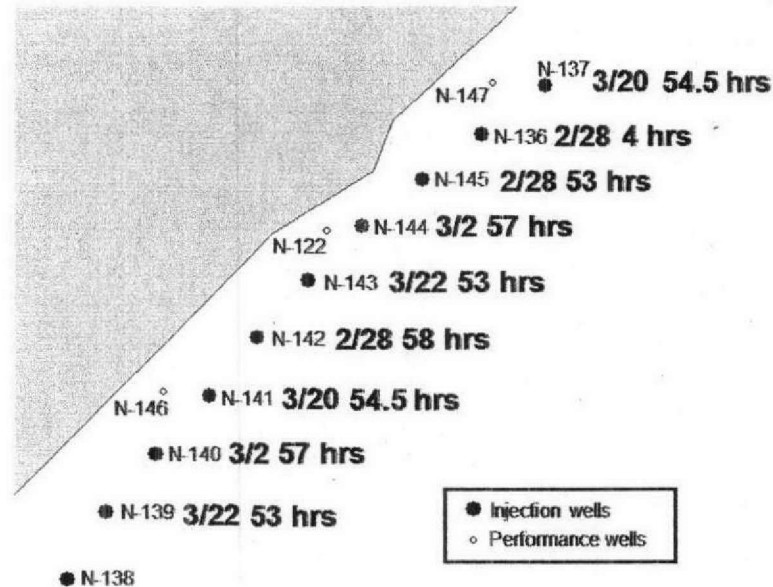


**Apatite Pilot Test #2 (199-N-137)**

- Sampling results from March 2007 indicate 200 pCi/L (baseline 1000 pCi/L)
- Strontium-90 sequestration performance monitoring will continue bi-monthly.



**100/300 Areas Unit Managers Meeting  
May 10, 2007**



**Apatite Ringold Eight Well Injection**

- Ringold injections completed on March 25<sup>th</sup>
- In accordance with a DOE-RL and regulator approved TTP installation of 300 foot sequestration barrier utilizing a formulation of apatite forming materials treating the Ringold Formulation was be completed on March 25, 2007 (one month early).
- Field conductivity indicate lateral phosphate movement along the 300 foot barrier..
- Sample to continue weekly

**Hanford Formation Apatite Injections**

- River stage dependent N-137 and N-138 injections to begin May 15, 2007.
- Injection rate 40gpm with N-137 receiving 70,000 gallons and N-138 receiving 120,000 gallons.
- Predicted river levels will support the eight well Hanford injections which are planned to begin June 2007

**100-KR-4 Groundwater OU - Ron Jackson**

- Remediation Treatment Status
  - For the period of March 29-April 29, 2007:
    - System operated normally.
    - Total average flow through the system was approximately 292 gpm.
    - Average influent hexavalent chromium concentration was 0.030 mg/L.
- KR-4 Expansion
  - Initiated planning for the KW expansion pump and treat system. A revision to the RDR/RAWP will be required.
- KW Groundwater Remediation
  - For the period of January 29, 2007-April 29, 2007
  - The initial system was started up on January 4 with two extraction wells and one injection well. The remaining two extraction wells and the injection wells were brought on line on January 29.

**100/300 Areas Unit Managers Meeting**  
**May 10, 2007**

- Total average flow through the system was approximately 84 gpm. The lower flow was attributed to down time associated with extraction well K-139 due to filter clogging. Average influent hexavalent chromium concentration was 0.156 mg/L.

- **Calcium Polysulfide Treatability Test**

- Quarterly sampling began in February, all four of the treatability test injection wells remain strongly reducing, with oxidation reduction potentials around -300m. Samples from the extraction well, 199-K-126, show the aquifer in this area to be oxic, containing 45 ppb hexavalent chromium. (no change)

**100-KR-4: K-Basins Monitoring Task—Bob Peterson (PNNL)**

- **Leak Detection Monitoring**

- The most recent tritium results available are for samples collected during early April near KE basin, and in January near KW basin. No monthly samples near KE basin were collected during March because of an interruption to all groundwater sampling. The values are consistent with historical trends and expectations, with no evidence for recent impacts to groundwater from shielding water at KE or KW basin.
  - Monthly monitoring continues to be scheduled for three wells close to the KE Basin (199-K-27, 199-K-29, and 199-K-109A) while sludge removal/transfer operations are underway. The most recent sampling was conducted in late April, with results expected no later than mid-May.

- **Monitoring Well Network**

- New monitoring wells 199-K-141 and 199-K-142, which were installed between the KE reactor and the Columbia River, were sampled for the first time in late April.

- **Reporting**

- Most recent quarterly K-Basins report: January, February, and March 2007 (PNNL-16556). Report was distributed as a .pdf file on April 30.

**100-HR-3 Groundwater OU - Ron Jackson**

- **Remediation Treatment Status**

- For the period March 29-April 29, 2007:
    - The system operated normally.
    - Total average flow through the system was approximately 169 gpm.
    - Average influent hexavalent chromium concentration for H Area was approximately less than 0.010 mg/L.
    - Average influent hexavalent chromium concentration for D Area was approximately 0.111 mg/L.

- **HR-3, KR-4, and NR-2 CY 2006 Annual Report**

- RL will brief EPA/Ecology on the annual report on May 10, 2007

- **DR-5 Treatment Status**

- For the period March 29-April 29, 2007:
    - System operated normally except D5-92 pump failed on 3/28. After replacing the pump the extraction well was returned to service on 5/3.
    - Total average flow was approximately 40 gpm.
    - The average influent hexavalent chromium concentration was 856 mg/L.

**100/300 Areas Unit Managers Meeting  
May 10, 2007**

- "Horn" Investigation
  - Request addition of receipt of memo, dated April 26, 2007, requesting Ecology's review of the sampling and analysis instructions, SGW-33224, draft.
  - FY 2007 characterization/monitoring wells have been staked.
  - Cultural resources evaluation has been initiated.
- Summary of ISRM Status
  - Chromium concentrations in groundwater sampled from select ISRM injection wells slightly lower than last April.
  - Incorporating RL comments into the ISRM annual report. The report will be issued in June 2007.
- EM-22 Technology Developments
  - Injecting micron-size iron into selected ISRM boreholes: MSE-Technology Applications is continuing the laboratory experiments to test the effects of iron on groundwater composition and determine the probability of passivation of the iron in contact with groundwater.
  - Batch testing using the EC system was initiated on 5/3 with favorable results. Continuous testing will start during the week of 5/14. The test will run for approximately 4 months.
  - The seven chromium source investigation are being sampled for hexavalent chromium every other week.
  - EM-20 has indicated that they will support a chromium source investigation for the northwest 100-D plume.
  - Well drilling is proceeding at the biostimulation test site in 100-D.

**300-FF-5 Operable Unit—Bob Peterson (PNNL) and Ron Smith (PNNL)**

- Operations and Maintenance Plan Activities:
  - Recent sampling events and results: The only new results available since the semi-annual sampling event in December 2006 are those associated with RCRA monitoring near the former 300 Area Process Trenches. No significant changes.
  - RCRA Integration, 300 Area Process Trenches: [No new information to report]
- Phase III Feasibility Study, 300-FF-5 Operable Unit:

Feasibility Study: Completed draft of report documenting rationale, ranking, and resulting selection of technologies for further consideration in assembling remediation alternatives. Technology screen is complete and being documented for review. The formulation of remediation alternatives for uranium in groundwater and associated sediment sources using technologies that have been screened will continue in May.

  - Limited Field Investigation: The report describing the results of the LFI drilling program was reviewed by DOE and comments are being incorporated during the week of May 7, 2007.
  - Risk Assessment: The report describing an update to the 300-FF-5 qualitative risk assessment was provided by DOE to EPA on April 26 for review.

**100/300 Areas Unit Managers Meeting**  
**May 10, 2007**

• Other Activities:

- VOC Investigation: Drilling adjacent to LFI well 399-3-20 will started on April 12. Six water samples were collected during the drilling and analyzed for volatile organic compounds. Results were similar to those from the LFI well, i.e., elevated trichloroethene was detected in the sandy unit within Ringold Unit E. The highest concentration encountered was 765 ug/L. Hydraulic tests were conducted during drilling, as well as geophysical logging of the borehole. The borehole will be completed as a monitoring well, with the screen placed in the lower portion of the unconfined aquifer (equivalent to the “-B” wells in the northern portion of the 300 Area.
- Presentations: Several talks involving the 300 Area were presented at the 6<sup>th</sup> Washington Hydrology Symposium in Tacoma on May 1-3, 2007. The information presented related to the discharge of uranium-contaminated groundwater to the river along the 300 Area.
- Appendix A to Waste Management Plan for the 300-FF-5 Operable Unit has been updated to include the TCE investigation well IDs and Names. Concurrence page will be signed and entered into UMM meeting minutes to document acceptance of this change.

**100-BC-5 Operable Units—Mary Hartman**

All FY 2007 sampling outlined in the groundwater SAP is complete. When new wells are installed at 100-C-7, we will add them to the sampling schedule (hexavalent chromium, alpha/beta, tritium, and general chemistry).

**100-FR-3 Operable Unit—Mary Hartman**

All FY 2007 sampling is complete. No activities to report.

## **Attachment 2**



**DON'T SAY IT — Write It!**

TO: Dibakar Goswami H0-57  
Alisa Huckaby H0-57

DATE: April 26, 2007  
FROM: Ron Jackson E6-35  
Telephone: 373-3599

cc:

SUBJECT: Transmittal of Draft SGW-33224

This DSI transmits SGW-33224, DRAFT, "Sampling and Analysis Instruction for Investigating Chromium Groundwater Contamination in the 600 Area Between 100-D and 100-H," for your review. Comments need to be returned to Jim Hanson (RL) no later than COB June 11, 2007. This allows Ecology 45 calendar days to review the document.

If you have any questions contact Jim Hanson at 373-9068 or Ron Jackson at 430-8256.

**RECEIVED**

APR 26 2007

Department of Ecology  
NWP - Richland

### **Attachment 3**

DOE/RL-2000-56

Rev. 1

OU: 300-FF-5

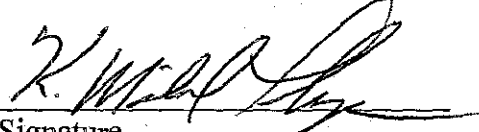
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ERA: N/A

### CONCURRENCE PAGE

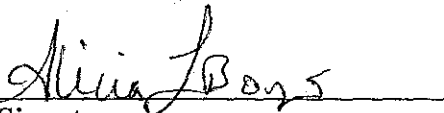
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Revised Monitoring List (Appendix A Well List)

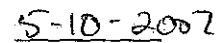
**Concurrence:** K. M. Thompson  
U.S. Department of Energy, Richland Operations Office

  
Signature

  
Date

A. L. Boyd  
U.S. Environmental Protection Agency

  
Signature

  
Date

**Attachment:**

APPENDIX A: 300-FF-5 OPERABLE UNIT MONITORING SITES (updated May 17, 2007)

**Change Summary:**

Added six wells for polyphosphate treatability test and included the well IDs and site/well names for VOC placeholder wells added by a previous change.

APPENDIX A  
300-FF-5 OPERABLE UNIT MONITORING SITES

(Shading indicates current change)

300-FF-5 Sub-Region	Well ID or Site ID <sup>(a)</sup>	Well or Site Name	Site Type
300 Area	A5018	399-1-1	Well
300 Area	A5035	399-1-2	Well
300 Area	A5036	399-1-3	Well
300 Area	A5037	399-1-4	Well
300 Area	A5039	399-1-6	Well
300 Area	A5040	399-1-7	Well
300 Area	A5041	399-1-8	Well
300 Area	A5042	399-1-9	Well
300 Area	A5411	399-1-10A	Well
300 Area	A8064	399-1-10B	Well
300 Area	A5020	399-1-11	Well
300 Area	A5021	399-1-12	Well
300 Area	A5412	399-1-13A	Well
300 Area	A8065	399-1-13B	Well
300 Area	A5413	399-1-14A	Well
300 Area	A8066	399-1-14B	Well
300 Area	A5024	399-1-15	Well
300 Area	A5025	399-1-16A	Well
300 Area	A5026	399-1-16B	Well
300 Area	A5027	399-1-16C	Well
300 Area	A5028	399-1-17A	Well
300 Area	A5029	399-1-17B	Well
300 Area	A5030	399-1-17C	Well
300 Area	A5031	399-1-18A	Well
300 Area	A5032	399-1-18B	Well
300 Area	A5033	399-1-18C	Well
300 Area	A8068	399-1-20	Well
300 Area	A5414	399-1-21A	Well
300 Area	A5415	399-1-21B	Well
300Area	C5000	399-1-23	Well
300 Area	A5043	399-2-1	Well
300 Area	A5044	399-2-2	Well
300 Area	A5045	399-2-3	Well

Supplement to DOE/RL-2000-56 Rev. 1 (List Updated May 10, 2007)

300-FF-5 Sub-Region	Well ID or Site ID <sup>(a)</sup>	Well or Site Name	Site Type
300 Area	A5046	399-3-1	Well
300 Area	A8071	399-3-2	Well
300 Area	A8072	399-3-3	Well
300 Area	A5049	399-3-6	Well
300 Area	A8076	399-3-8	Well
300 Area	A5051	399-3-9	Well
300 Area	A5047	399-3-10	Well
300 Area	A8077	399-3-11	Well
300 Area	A5048	399-3-12	Well
300 Area	C4999	399-3-18	Well
300 Area	C5001	399-3-19	Well
300 Area	C5002	399-3-20	Well
300 Area	A5052	399-4-1	Well
300 Area	A5055	399-4-7	Well
300 Area	A5056	399-4-9	Well
300 Area	A5053	399-4-10	Well
300 Area	A5054	399-4-11	Well
300 Area	A8089	399-4-12	Well
300 Area	A5057	399-5-1	Well
300 Area	A8091	399-5-2	Well
300 Area	A8094	399-5-4B	Well
300 Area	A5058	399-6-1	Well
300 Area	A8095	399-6-2	Well
300 Area	A5059	399-8-1	Well
300 Area	A5060	399-8-2	Well
300 Area	A5061	399-8-3	Well
300 Area	A8096	399-8-4	Well
300 Area	A5416	399-8-5A	Well
300 Area	A5417	399-8-5B	Well
300 Area	A5418	399-8-5C	Well
300 Area	C5351	399-1-24	Well
300 Area	C5352	399-1-25	Well
300 Area	C5353	399-1-26	Well
300 Area	C5354	399-1-27	Well
300 Area	C5355	399-1-28	Well
300 Area	C5356	399-1-29	Well

Supplement to DOE/RL-2000-56 Rev. 1 (List Updated May 10, 2007)

300-FF-5 Sub-Region	Well ID or Site ID <sup>(a)</sup>	Well or Site Name	Site Type
300 Area	C5357	399-1-30	Well
300 Area	C5358	399-1-31	Well
300 Area	C5359	399-1-32	Well
300 Area	C5626	399-1-33	Well
300 Area	C5627	399-1-34	Well
300 Area	C5628	399-1-35	Well
300 Area	C5629	399-1-36	Well
300 Area	C5630	399-1-37	Well
300 Area	C5631	399-1-38	Well
300 Area	C4855	699-S20-E10	Well
300 Area	A5422	699-S22-E9A	Well
300 Area	A5423	699-S22-E9B	Well
300 Area	A5424	699-S22-E9C	Well
300 Area	A5425	699-S27-E9A	Well
300 Area	A5426	699-S27-E9B	Well
300 Area	A5427	699-S27-E9C	Well
300 Area	A5371	699-S27-E14	Well
300 Area	A5429	699-S29-E16A	Well
300 Area	A5430	699-S29-E16B	Well
300 Area	A5431	699-S29-E16C	Well
300 Area	A9209	699-S30-E14	Well
300 Area	A5377	699-S30-E15A	Well
300 Area	A9210	699-S30-E15B	Well
300 Area	C5575	399-3-21	Well
300 Area	C5706	399-3-22	Well
300 Area	C5707	399-4-14	Well
300 Area	C5708	399-2-5	Well
618-2	C5387	NA <sup>1</sup>	Well
618-2	C5388	NA <sup>1</sup>	Well
618-2	C5389	NA <sup>1</sup>	Well
316-4/618-10	A9152	699-S6-E4A	Well
316-4/618-10	A9153	699-S6-E4B	Well
316-4/618-10	A9154	699-S6-E4C	Well
316-4/618-10	A9788	699-S6-E4CP	Well
316-4/618-10	B2831	699-S6-E4CS	Well
316-4/618-10	A5406	699-S6-E4D	Well

Supplement to DOE/RL-2000-56 Rev. 1 (List Updated May 10, 2007)

300-FF-5 Sub-Region	Well ID or Site ID <sup>(a)</sup>	Well or Site Name	Site Type
316-4/618-10	A9155	699-S6-E4E	Well
316-4/618-10	A9156	699-S6-E4F	Well
316-4/618-10	A9157	699-S6-E4G	Well
316-4/618-10	A9158	699-S6-E4H	Well
316-4/618-10	A9159	699-S6-E4J	Well
316-4/618-10	C4072	699-S6-E4K	Well
316-4/618-10	C4073	699-S6-E4L	Well
316-4/618-10	A9163	699-S6-E16A	Well
316-4/618-10	A9164	699-S6-E16B	Well
316-4/618-10	A9181	699-S11-E12A	Well
618-11	A8124	699-2-E14	Well
618-11	A8246	699-12-2A	Well
618-11	C3253	699-12-2C	Well
618-11	C3256	699-13-0A	Well
618-11	A8260	699-13-1A	Well
618-11	A8261	699-13-1B	Well
618-11	A8262	699-13-1C	Well
618-11	C3251	699-13-1D	Well
618-11	C3798	699-13-1E	Well
618-11	C3254	699-13-2D	Well
618-11	B2540	699-13-3A	Well
618-11	A5070	699-14-E6T	Well
618-11	A8318	699-15-15B	Well
618-11	A8338	699-15-E13	Well
618-11	A5085	699-20-E12	Well
618-11	C3071	ENW-MW1	Well
618-11	C3072	ENW-MW2	Well
618-11	C3073	ENW-MW3	Well
618-11	C3074	ENW-MW4	Well
618-11	C3075	ENW-MW5	Well
618-11	C3076	ENW-MW6	Well
618-11	C3077	ENW-MW7	Well
618-11	C3078	ENW-MW8	Well
618-11	C3079	ENW-MW9	Well
618-11	C3080	ENW-MW31	Well
618-11	C3081	ENW-MW32	Well

300-FF-5 Sub-Region	Well ID or Site ID <sup>(a)</sup>	Well or Site Name	Site Type
300 Area	C4347	AT-3-1-S	Aquifer tube
300 Area	C4346	AT-3-1-M	Aquifer tube
300 Area	C4348	AT-3-1-D(2)	Aquifer tube
300 Area	C4345	AT-3-1-D(1)	Aquifer tube
300 Area	C4350	AT-3-2-S	Aquifer tube
300 Area	C4349	AT-3-2-M	Aquifer tube
300 Area	C4642	300SPR9A-19cm	Aquifer tube
300 Area	C4643	300SPR9A-86cm	Aquifer tube
300 Area	C4644	300SPR9A-142cm	Aquifer tube
300 Area	C4741	300-3-3C-409cm	Aquifer tube
300 Area	C4742	300-3-3C-589cm	Aquifer tube
300 Area	C4646	300-3-3B-376cm	Aquifer tube
300 Area	C4740	300-3-3B-518cm	Aquifer tube
300 Area	C4690	300-3-3A-124cm	Aquifer tube
300 Area	C4645	300-3-3A-410cm	Aquifer tube
300 Area	C4739	300-3-3A-579cm	Aquifer tube
300 Area	C4353	AT-3-3-S	Aquifer tube
300 Area	C4352	AT-3-3-M	Aquifer tube
300 Area	C4351	AT-3-3-D	Aquifer tube
300 Area	C4356	AT-3-4-S	Aquifer tube
300 Area	C4355	AT-3-4-M	Aquifer tube
300 Area	C4354	AT-3-4-D	Aquifer tube
300 Area	C4358	AT-3-5-S	Aquifer tube
300 Area	C4357	AT-3-5-M	Aquifer tube
300 Area	C4361	AT-3-6-S	Aquifer tube
300 Area	C4360	AT-3-6-M	Aquifer tube
300 Area	C4359	AT-3-6-D	Aquifer tube
300 Area	C4364	AT-3-7-S	Aquifer tube
300 Area	C4363	AT-3-7-M	Aquifer tube
300 Area	C4362	AT-3-7-D	Aquifer tube
300 Area	C4367	AT-3-8-S	Aquifer tube
300 Area	C4366	AT-3-8-M	Aquifer tube
300 Area	C4365	AT-3-8-D	Aquifer tube
300 Area	S1170 <sup>(a)</sup>	Spr-1	Riverbank spring
300 Area	S1171 <sup>(a)</sup>	Spr-2	Riverbank spring
300 Area	S1172 <sup>(a)</sup>	Spr-3	Riverbank spring



300-FF-5 Sub-Region	Well ID or Site ID <sup>(a)</sup>	Well or Site Name	Site Type
300 Area	S1173 <sup>(a)</sup>	Spr-4	Riverbank spring
300 Area	S1174 <sup>(a)</sup>	41-1	Riverbank spring
300 Area	S1175 <sup>(a)</sup>	Spr-5	Riverbank spring
300 Area	S1176 <sup>(a)</sup>	Spr-6	Riverbank spring
300 Area	S1177 <sup>(a)</sup>	42-1	Riverbank spring
300 Area	S1178 <sup>(a)</sup>	S3-42-2 (Spr-7)	Riverbank spring
300 Area	S1179 <sup>(a)</sup>	Spr-8	Riverbank spring
300 Area	S1180 <sup>(a)</sup>	S3-DR42-2 (Spr-9)	Riverbank spring
300 Area	S1181 <sup>(a)</sup>	Spr-10	Riverbank spring
300 Area	S1182 <sup>(a)</sup>	Spr-11	Riverbank spring
300 Area	S1183 <sup>(a)</sup>	Spr-12	Riverbank spring
300 Area	S1184 <sup>(a)</sup>	Spr-13	Riverbank spring
300 Area	S1185 <sup>(a)</sup>	Spr-14	Riverbank spring
300 Area	S1186 <sup>(a)</sup>	43-2	Riverbank spring
300 Area	S1187 <sup>(a)</sup>	43-3	Riverbank spring
<sup>1</sup> No "well or site name" assigned as these small diameter wells were decommissioned immediately following groundwater sample collection. (a) Site ID's for riverbank springs are proposed, i.e., they are not in HEIS databases as of the date of this change.			

## **Attachment 4**

## DRAFT River Corridor Completion Strategy (4/30/07)

### Introduction

- Current RCRA/CERCLA cleanup processes in the River Corridor of the Hanford Site follow the 1992 Past Practice Strategy.
- Cleanup was initiated and continues today utilizing Interim Action Records of Decision (IARODs); based on site history, process knowledge, limited site-specific waste characterization and qualitative risk assessments.
- The Past Practice Strategy provides information on how to obtain final RODs through the CERCLA process. However, a strategy is needed on what operable units to group together for the final action RODs and how to complete the regulatory process for the River Corridor.
- This strategy groups existing River Corridor operable units together for future final action RODs.
- This strategy lists the regulatory requirements (Attachment 3) and describes the process (Attachment 2) for regulatory completion of the River Corridor.

### River Corridor Completion Strategy

- Continue IARODs until final RODs replace them.
- Complete Remedial Investigation/Feasibility Studies (RI/FS) for source and groundwater operable units in River Corridor. A schedule is provided in Attachment 4.
  - RIs for source and groundwater operable units may proceed in separate documents; however risks must be combined in order to support Proposed Plans (PP) and final RODs.
- Prepare PP and final RODs that combine source and groundwater operable units. Attachment 1 lists the ROD options considered and provides a brief discussion on why the above PP and ROD groupings are selected. The PP and final RODs will be grouped in the following geographic areas:
  - 100 Areas
    - 100-B/C, F, IU-2/6
    - 100-N
    - 100-K, D, H
  - 300 Areas
    - 300 Area and nearby 600 Area waste sites
- CERCLA 5 Year Reviews will ensure the final remedies selected for the River Corridor remain protective of human health and environment. Should GW plumes in the 200 change direction or migrate towards the River Corridor, it is anticipated that the River Corridor Operations & Maintenance, the 200 Area remedial processes and/or 5 Year Review process will discover and cause actions to be taken to evaluate alternative or additional remediation as necessary.
  - The 200 Area is currently gathering characterization data in the Central Plateau vadose zone to bolster their current estimates of inventory and transport. This data will support deep vadose zone treatability test and will be

used to refine the results of the modeling being conducted by the Tank/Waste Management EIS. At that point DOE will be in a position to determine if there are any future impacts from the Central Plateau and put in place a process to assess and address them.

- CERCLA documentation to date provides either interim action RODs or final action RODs that incorporate NEPA values, including cumulative risk analysis for the waste site. The Tank Closure EIS also provides cumulative risk analysis for the Hanford Site. These documents will either explain inconsistencies or be consistent between one another. The RCBRA is not the only cumulative risk analysis required but will be relied upon heavily for River Corridor final remedial decisions.
- Until final action RODs are approved, any changes to interim removal and/or remedial actions will be documented through an Explanation of Significant Differences or IAROD amendments
- The Parties will document closure following EPA guidance; e.g., *Close Out Procedures for National Priorities List Sites* EPA 540-R-98-016, OSWER Directive 9320.2-09A-PJ, and *Guidance on Completion of Corrective Action Activities at RCRA Facilities* [FRL-7454-7].
  - “Remedial action completion” is documented by Remedial Action Reports (RAR). RARs will be completed separately for source and groundwater actions. Source RARs and RCRA permit modifications, as appropriate, will be completed as source OUs are completed under Interim Action RODs and under final action RODs. Interim RARs will be completed for groundwater when final remedial actions are operational and functional.
  - Once the Remedial Action Objectives for final remedies have been met for groundwater OUs, final RARs will be completed.
  - Upon completion of River Corridor source RARs and groundwater Interim RARs, River Corridor construction completion is documented in a Preliminary Close Out Report.
  - River Corridor site completion is documented in a Final Closeout Report.
- RCRA permit modifications will be completed in parallel to the final RODs for RCRA past practice units and TSDs
  - CERCLA addresses all the substantive RCRA regulations, so by applying the CERCLA process it is anticipated that RCRA corrective actions would also be addressed.
  - Need Ecology input
  -
- The National Contingency Plan establishes the criteria that EPA will use to delete sites from the NPL at 40 CFR 300 § 425(e)(1). Per 40 CFR 300 § 425(e)(1)(i) and (iii), EPA will consider whether DOE has implemented all appropriate response actions that are required, and whether there are no releases that pose a significant threat to public health or the environment that would require further remedial measures.
  - It has not determined when deletion will be pursued.

Attachments:

1. ROD Options
2. Flow diagram on River Corridor Completion
3. Requirements, Guidance, and other criteria for RCRA/CERCLA Completion of River Corridor Project
4. Schedule

## Attachment 1 River Corridor ROD

The Tri Parties desire the Proposed Plans and final action Records of Decisions (ROD) to combine source and groundwater decisions by geographic area, i.e. combining a reactor area with multiple source OUs and one groundwater OU into one ROD. This is a change from the current cleanup decisions. There are separate IARODs for source and groundwater operable units. Each IAROD has a regulatory lead by geographical area. Table 1 lists the regulatory lead assignments.

Table 1.0 Summary of Regulatory Lead Assignments

	EPA Lead	Ecology Lead
100 Area	B/C, K, & F Areas, IU-2/6	N, D, & H Areas
300 Area	300 Area	
600 Area	600 Area	

Combining OUs integrates the cleanup decision and should make it easier for interested stakeholders to understand the combined remedy for source and groundwater as well as their interrelationships. Table 2 lists potential geographic area groupings and provides considerations that should be considered for each option. The reactor areas and the 300 Area are the smallest geographic areas considered since in most cases they can be geographically separated. Groundwater plumes in some cases, close this separation.

Table 2 River Corridor Proposed Plan/ROD Options

	ROD option	Considerations
River Corridor Option 1	Combine all 100 and 300 Areas into one ROD	<p>Provides holistic River Corridor cleanup decision, institutional controls and monitoring</p> <p>Majority of source sites will have completed interim actions by 2014</p> <p>May be too much information to combine into one decision</p> <p>Multiple land uses</p> <p>Combines both EPA and Ecology sites.</p>
100 Area Option 1	B/C, K, N, D, H, F, IU-2/6	<p>Provides holistic 100 Area cleanup decision, institutional controls and monitoring</p> <p>Single land use</p> <p>Combines both EPA and Ecology sites.</p> <p>Combines multiple primary groundwater</p>

		contaminants
100 Area Option 2	B/C, F, K, IU-2/6  N  D and H	Combines EPA led 100 Area and adjacent 600 Area sites  N Area has unique Sr-90 groundwater plume  Combines Washington Department of Ecology lead Cr groundwater sites  K Area is the only area with active groundwater remediation decision
100 Area Option 3	B/C, F, IU-2/6  K, D and H  N	Combines EPA lead sites with no current groundwater actions  Combines Cr groundwater sites with current interim actions  N Area has unique Sr-90 groundwater plume  Combines EPA and Ecology lead sites
100 Area Option 4	B/C K N D H F and IU-2,6	Matches RODs with Reactor Areas  Separate regulator lead for each Reactor Area  Single land use for each ROD  IU-2 and 6 in vicinity of F Reactor
300 Area Option 1	300 Area and adjacent 600 Area sites	Combines 300 Area interim actions  Combines EPA lead sites near 300 Area  Mixes land uses

#### Discussion and Recommendation:

River Corridor Option 1 combines all source and groundwater operable units into one Record of Decision. This option produces the greatest benefits from a holistic point of view, however, the amount of information will be difficult to convey and understand. This option is being eliminated from consideration for this reason.

100 Area Option 1 has a similar holistic benefit, but on a slightly smaller scale. Similar to the option above, the amount of information would be difficult to convey and understand thus eliminating this option.

Both 100 Area Option 2 and 3 are broken up into manageable pieces. There are two differences in the options. 100 Area option 2 combines operable units that have the same regulatory lead. 100 Area option 3 combines sites by primary contaminant in plumes with ongoing interim actions and sites that do not have any interim actions. 100-K Area is the only reactor area that shifts between the options. Combining reactor areas with similar groundwater plumes has a greater benefit in terms of conveying information and gaining public acceptance. 100 Area Option 3 is therefore the preferred Proposed Plan and ROD grouping for the 100 Area.

The 300 Area does not need to be broken up into further pieces, therefore 300 Area option 1 is the preferred Proposed Plan and ROD grouping for the 300 Area.



Attachment 2  
River Corridor Completion Process (See PowerPoint flowchart)

Requirements, Guidance & Other Criteria  
for  
CERCLA/RCRA Completion of Hanford's River Corridor Project

CERCLA

- Requirements
  - o Comprehensive Environmental Response, Compensation & Liability Act
    - Section 104 Response Authorities
    - Section 120 Federal Facilities
      - Section 120 (h) (4) Identification of uncontaminated property
    - Section 121 Cleanup Standards
  - o NCP
    - 40 CFR 300.430 – RI/FS and selection of remedy
    - 40 CFR 300.435 – RD/RA, O&M
    - 40 CFR 300.425(e) – Delisting from the NPL -
- Guidance
  - o EPA 540-R-98-016, OSWER Directive 9320.2-09A-P, Close Out Procedures for National Priorities List Sites
    - Section 2.0 Remedial Action Completion
    - Section 3.0 Construction Completion
  - o EPA 540/F/01/009, OSWER Directive 9355.0-79FS, Superfund Post Construction Completion: An Overview
- Policy
  - o Listing and Deletion Policy for Federal Facilities [citation]

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RCRA

- Requirements
  - o Hanford Permit Number WA7890008967, Section II.Y Corrective Action
    - Section II.Y.2 - Acceptance of Work Under Other Authorities and Integration with the HFFACO
  - o Dangerous Waste Regulations - WAC 173-303-610 – TSD Closure
  - o Dangerous Waste Regulations - WAC 173-303-64620 – Corrective Action Requirements
- Guidance

- Ecology/EPA Agreement on Roles and Responsibilities at NPL Sites, Applicable Requirements Under the Model Toxics Control Act Regulations (WAC 173-340)- January 13, 1995
- EPA "Guidance on the Completion of Corrective Action Activities at RCRA Facilities" [FRL-7454-7]
- EPA Policy in Federal Register 62523 24Nov1997, FRL-5925-3, "The National Priorities List for Uncontrolled Hazardous Waste Sites; Listing and Deletion Policy for Federal Facilities" Vol 62 No. 226. In particular, part IV "Policy for Deleting Sites from the NPL based Upon RCRA Deferral"

Hanford Federal Facilities Agreement and Consent Order (aka the TPA)

- Requirements
  - Part One, Article IV - Statutory Compliance and RCRA/CERCLA Integration and Coordination
    - Paragraph 17
  - Part Four, Article XXIII - RCRA/CERCLA Interface
  - Part Four, Article XXVIII – RCRA/CERCLA Reservation of Rights
  - Action Plan Section 3.5 – Waste Information Data System and Hanford Site Waste Management Units Report
  - Action Plan Section 5.2.2 – RCRA Past-Practice Unit
  - Action Plan Section 5.4 – Management of Past-Practice Units
  - Action Plan Section 7.3 – Comprehensive Environmental Response, Compensation, and Liability Act Past-Practice Unit Process
    - Section 7.3.10 - Upon satisfactory completion of the RA phase for a given operable unit, the lead regulatory agency shall issue a certificate of completion to the DOE for that operable unit. At the discretion of the lead regulatory agency, a certificate of completion may be issued for completion of a portion of the RA phase for an operable unit.
  - Action Plan Section 9.4 – Administrative Record
  - Action Plan Section 10.0 – Community Relations/Public Involvement (and Tribal Consultation)
- Guidance
  - Hanford Past-Practice Strategy (DOE/RL-91-40, Rev 0).

- Programmatic Decisions, Final Remedy Selection for the Operable Unit
- Strategy, Final Remedy Selection

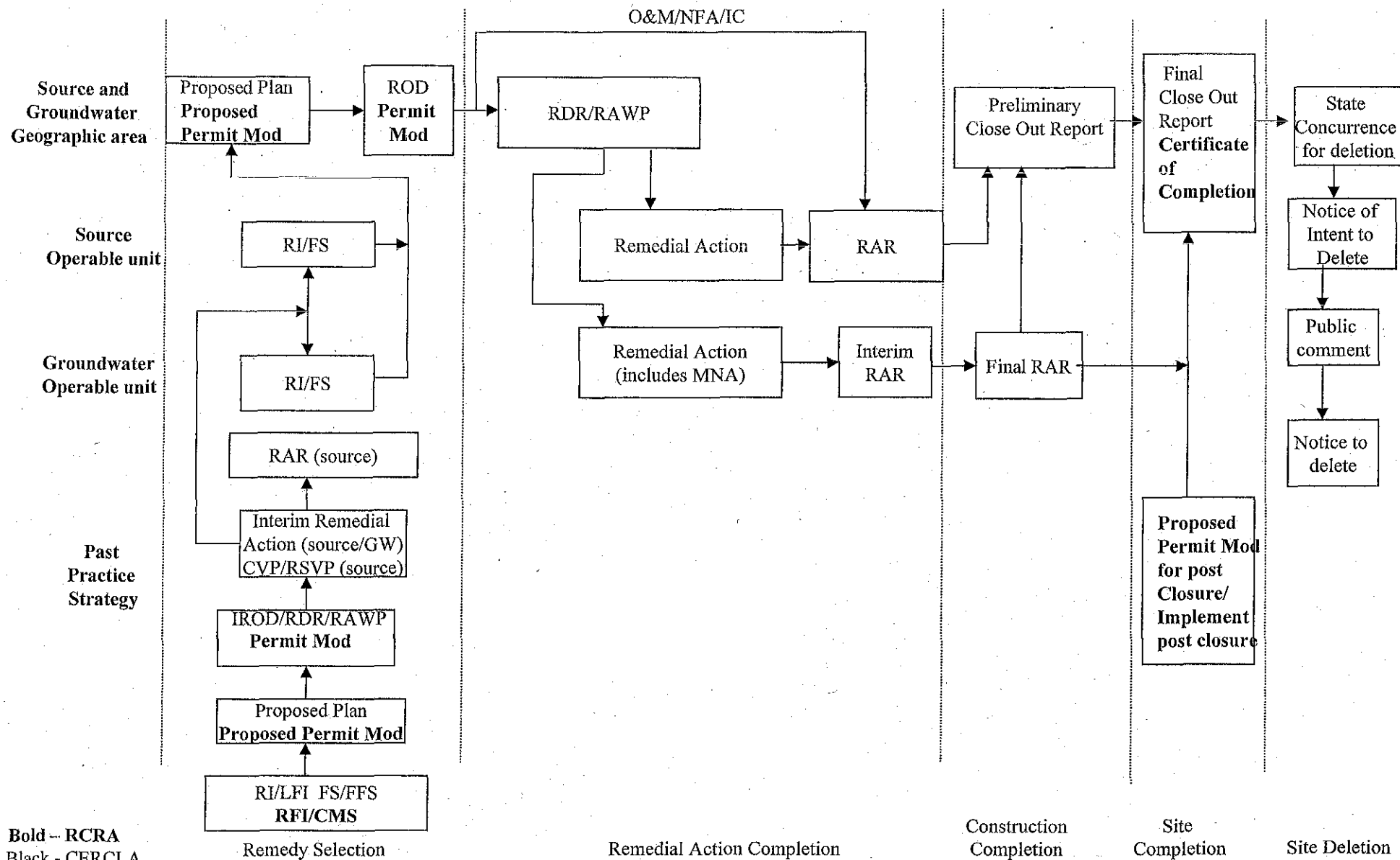
Other Criteria

- HAB Advice and TPA Responses (as applicable)
- NRTC Findings (as applicable)

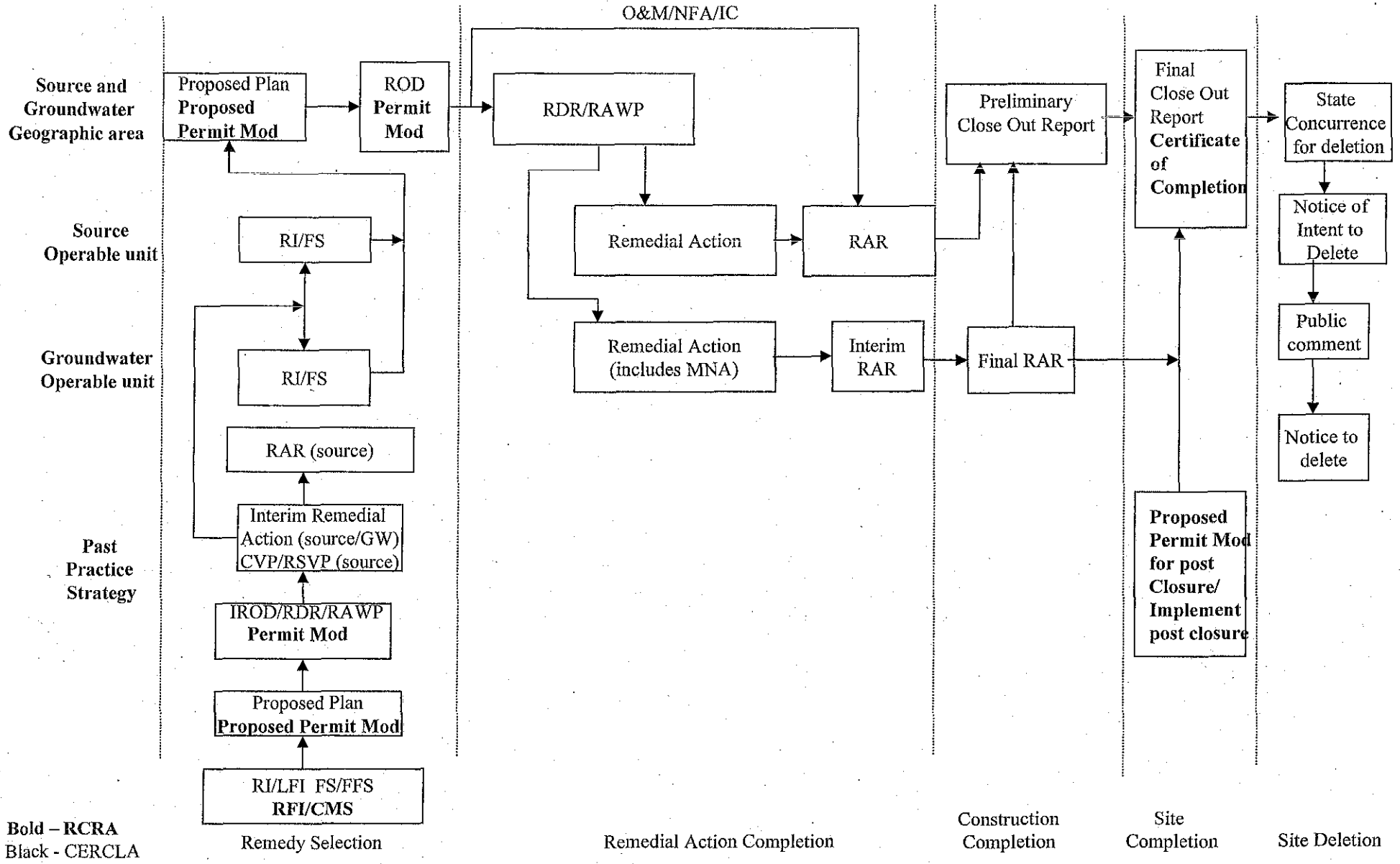
Attachment 4 RI/FS Schedule (TBDs, except for River Component RCBRA can be filled in late May once BCR is completed)

Activity	Start	Complete Draft
300-FF-5 - LFI/FS	2006	TBD
300-FF-5 RI/FS	TBD	TBD
100-HR-3 RI/FS	TBD	TBD
100-NR-2 RI/FS	TBD	TBD
100-FR-3 RI/FS	TBD	TBD
100-BC-5 RI/FS	TBD	TBD
100-KR-4 RI/FS	TBD	TBD
100 and 300 Source Areas RIR (includes RCBRA)	2008	2009 (Need to factor in river component)
River Component RCBRA	2005	TBD

# River Corridor Completion Process (4/12/07DRAFT)



# River Corridor Completion Process (4/12/07DRAFT)



## **Attachment 5**





**Change Notice for Modifying Approved Documents/ Workplans  
In Accordance with the Tri-Party Agreement Action Plan,  
Section 9.0, Documentation and Records**

5

<b>Change Number</b>	<b>Document Submitted Under Tri-Party Agreement Milestone</b>	<b>Date:</b>	
TPA-CN-____	N/A	<b>May 10, 2007</b>	
<b>Document Number and Title:</b> DOE/RL-2001-47, Rev 1, RDRA Work Plan for the 300 Area; and DOE/RL-96-17, Rev 5, RDRA Work Plan for the 100 Area.		<b>Date Document Last Issued:</b> 300 Area – May 2005 100 Area – Feb 2005	
<b>Originator:</b> Larry Gadbois		<b>Phone:</b> 509-376-9884	
<b>Description of Change:</b> Adds text to the RDRA Work Plans regarding ecological risk assessment.			
<p>This change modifies an approved workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, <i>Documentation and Records</i>, and not Chapter 12.0, <i>Changes to the Agreement</i>. The paragraph below is added to the identified sections of the document.</p> <p>100 Area RDR/RAWP Rev. 5:              Section 2.1.1, item 1, new last paragraph.              A new section 2.1.2.6.</p> <p>300 Area RDR/RAWP Rev. 1              Section 2.1, RAO 1, new last paragraph</p> <p>When evaluating data for the closeout of waste sites, DOE will compare the data against DOE's RESRAD-BIOTA radionuclide ecological screening levels output from RESRAD-BIOTA (download site: <a href="http://web.ead.anl.gov/resrad/home2/biota.cfm">web.ead.anl.gov/resrad/home2/biota.cfm</a>), DOE's ecological-specific cleanup numbers at <a href="http://www.ornl.gov/~wlj/benchhome.html">www.ornl.gov/~wlj/benchhome.html</a>, EPA's ecological soil screening levels at <a href="http://www.epa.gov/ecotox/ecossl">www.epa.gov/ecotox/ecossl</a>, and WAC 173-340 table 749-3 ecological screening values at <a href="http://www.ecy.wa.gov/programs/tcp/policies/terrestrial/table_749-3.htm">http://www.ecy.wa.gov/programs/tcp/policies/terrestrial/table_749-3.htm</a>. If the site does not exceed screening values, ecological protectiveness will be documented in the associated cleanup verification package (CVP) or remaining sites verification package (RSVP). When ecological screening levels are exceeded, the concentrations will be evaluated to determine if additional remediation or sampling is required. The conclusion of the evaluation will be documented in the relevant CVP or RSVP.</p> <p>A new bullet is added to the 100 Area RDR/RAWP section 3.6 which reads:              * Ecological risk is also evaluated as outlined in section 2.1.2.6.</p> <p>A new bullet is added to the 300 Area RDR/RAWP section 3.6.2 which reads:              * Ecological risk is also evaluated as outlined in section 2.1, RAO number 1.</p>			
<b>Justification and Impacts of Change:</b>			
<b>Approvals:</b>			
RL Unit Manager	_____ Date	__ Approved	__ Disapproved
EPA Unit Manager	_____ Date	__ Approved	__ Disapproved
Ecology Unit Manager	_____ Date	__ Approved	__ Disapproved



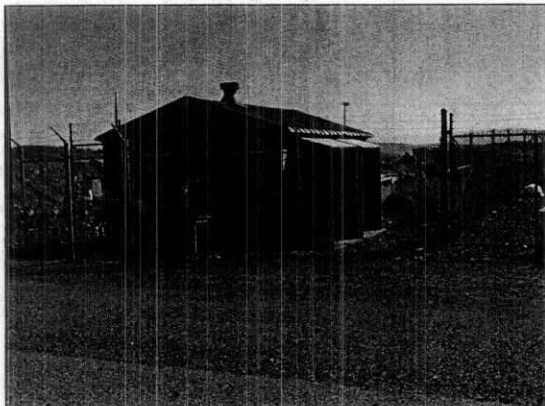
**Change Notice for Modifying Approved Documents/ Workplans  
In Accordance with the Tri-Party Agreement Action Plan,  
Section 9.0, Documentation and Records**

<b>Change Number</b>  TPA-CN-____	<b>Document Submitted Under Tri-Party Agreement Milestone</b>  _____ N/A	<b>Date:</b>  <b>January 11, 2007</b>	
<b>Document Number and Title:</b> DOE/RL-2001-47, Rev 1, RDRA Work Plan for the 300 Area; and DOE/RL-96-17, Rev 5, RDRA Work Plan for the 100 Area.		<b>Date Document Last Issued:</b> 300 Area – May 2005 100 Area – Feb 2005	
<b>Originator:</b> Larry Gadbois		<b>Phone:</b> 509-376-9884	
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<b>Justification and Impacts of Change:</b>			
<b>Approvals:</b>			
_____ RL Unit Manager	_____ Date	___ Approved	___ Disapproved
_____ EPA Unit Manager	_____ Date	___ Approved	___ Disapproved
_____ Ecology Unit Manager	_____ Date	___ Approved	___ Disapproved

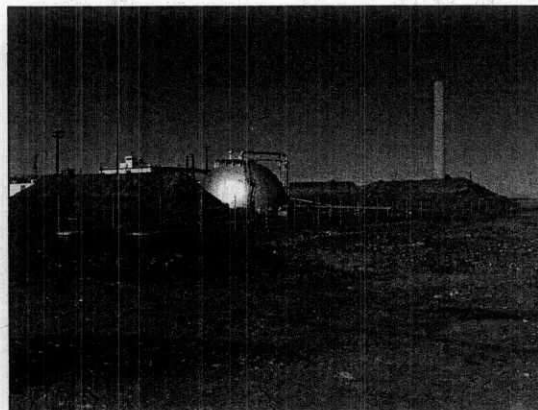
## **Attachment 6**

**1310-N & 1322-N/NA/NB/NC & Small Sections of 100-N-63 Piping:**

- Job Planning and preparation of Work Packages continues; some hazmat removal may startup
- Delayed Start of major D4 and 100-N-63 piping sections removal:
  - Coordination of Waste Site / Piping Remediation / Closeout
  - Estimated startup not likely until FY08 (Oct.1 2007 or later)



1322-N



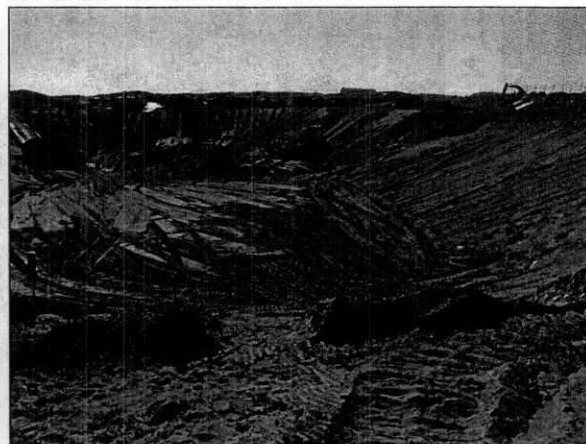
1310-N "Golf Ball"

**1312-N & Small Section of 100-N-63 Piping:**

- Removal of liners, leachate collection system piping, and debris completed.
- Liner and debris will continue to be shipped to ERDF.
- Backfill of the basin began this week.
- Backfill will maintain approx. 75 foot clearance from the existing 100-N-63 related piping and concrete outlet wall until after acceptance of verification sampling.
- Piping:
  - Actions will follow the current RDR/RAWP DOE/RL-2000-16, Rev.2
  - Overburden removed and shipped to ERDF based on field screening.
  - Piping has been removed and staged near the site.
  - Piping interior will be sprayed with fixative for transportation and disposal at ERDF.
  - Field Screening and surveys under the piping will be completed.
  - Verification sampling will follow the current Sampling and Analysis Plan, DOE/RL-2000-07, Rev.1.
  - Layout for sample locations will be provided to Ecology prior to sampling.
  - Backfill will occur after acceptance of sampling results



100-N-63 piping sections at 1312-N



1312-N Basin with liner removed



## **Attachment 7**

UMM Action Item #100-132

Actionee: Chris Smith

The WCH procedure, ENV-1-2.16, *Soil and Sediment Sampling*, will be revised to identify specific requirements when collecting samples for tritium analysis. To account for evapo-transpiration, when a soil/sediment sample is required for tritium analysis, the sample will be collected as a discrete sample approximately <sup>4 to 6</sup> one foot below the exposed sampling surface. This will be incorporated into the procedure by July 31, 2007.

## **Attachment 8**



**Field Remediation**  
**Sample Design and Cleanup Verification for the May 2007 UMM**

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
300 AREA	RL/Regulator Review Draft A WI for 300-32	12/12/2007	1/14/2008
	RL/Regulator Review Draft A WI for 300-2	1/3/2008	1/30/2008
	RL/Regulator Review Draft A WI for 303-M UOF	1/9/2008	2/5/2008
	RL/Regulator Review Draft A WI for 600-276	1/15/2008	2/11/2008
	RL/Regulator Review Draft A WI for UPR-300-2	1/21/2008	2/14/2008
	RL/Regulator Sign Rev. 0 WI for 300-32	1/23/2008	1/30/2008
	RL/Regulator Sign Rev. 0 WI for 300-2	2/11/2008	2/19/2008
	RL/Regulator Sign Rev. 0 WI for 303-M UOF	2/14/2008	2/25/2008
	RL/Regulator Sign Rev. 0 WI for 600-276	2/21/2008	2/28/2008
	RL/Regulator Sign Rev. 0 WI for UPR-300-2	2/27/2008	3/5/2008
	RL/Regulator Review Draft A Closure Doc for 300-32	6/16/2008	7/30/2008
	RL/Regulator Review Draft A Closure Doc for 300-2	7/2/2008	8/18/2008
	RL/Regulator Review Draft A Closure Doc for 303-M UOF	7/9/2008	8/21/2008
	RL/Regulator Review Draft A Closure Doc for 600-276	7/15/2008	8/27/2008
	RL/Regulator Review Draft A Closure Doc for UPR-300-2	7/21/2008	9/3/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 300-32	8/21/2008	8/28/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 300-2	9/10/2008	9/17/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 303-M UOF	9/16/2008	9/23/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 600-276	9/22/2008	9/29/2008
	RL/Regulator Sign Rev. 0 Closure Doc for UPR-300-2	9/25/2008	10/2/2008
	RL/Ecology Rev of Draft A ESD for 300 Area	5/30/2007	7/17/2007
	RL/Regulator Review Draft A Closure Doc for 300-48	7/15/2008	8/27/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 300-48	9/22/2008	9/30/2008
	RL/Regulator Review Draft A Closure Doc for 618-13	12/3/2008	1/21/2009
	RL/Regulator Review Draft A Closure Doc for 618-7	12/22/2008	2/17/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 618-13	2/12/2009	2/23/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 618-7	3/11/2009	3/18/2009
	RL/Regulator Review Draft A Closure Doc for 618-1	5/26/2009	7/9/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 618-1	7/13/2009	7/20/2009
618-10/11	RL Transmit 618-10/11 SAP for Regulators Review	6/28/2007	7/12/2007
	RL/Regulator Review of 618-10/11 SAP	7/16/2007	8/29/2007
	Cultural/Ecological APE Review 618-10/11	8/14/2007	9/13/2007
	DOE Review of Cultural Review 618-10/11	9/17/2007	10/16/2007
	RL/Regulator Sign 618-10/11 SAP	9/26/2007	10/9/2007
	RL Transmit 618-10/11 RDR to Regulators Review	10/31/2007	11/13/2007
	RL Transmit 618-10/11 SAP to Regulators Review	10/31/2007	11/13/2007
	RL/Regulator Review of 618-10/11 RDR	11/14/2007	1/8/2008
	RL/Regulator Review of 618-10/11 SAP	11/14/2007	1/8/2008
	RL/Regulator Sign 618-10/11 RDR	2/5/2008	2/26/2008
	RL/Regulator Sign 618-10/11 SAP	2/5/2008	2/26/2008
	Cultural/Ecological APE Review 618-10/11	5/7/2008	5/20/2008
	DOE Review of Cultural Review 618-10/11	5/7/2008	6/19/2008
	RL/Regulator Design Briefing 618-10/11	5/20/2008	5/22/2008
	618-10/11 DSA for DOE Review and Approval	8/28/2008	10/13/2008
	DOE Review Bid for 618-10/11	9/8/2008	9/8/2008

**Field Remediation**  
**Sample Design and Cleanup Verification for the May 2007 UMM**

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
100-BC	RL/Regulator Review Draft A WI for 100-B-21	5/26/2007	6/10/2007
	RL/Regulator Review Draft A WI for 100-B-22	6/11/2007	6/28/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-21	6/19/2007	6/26/2007
	RL/Regulator Review Draft A WI for 100-B-18	5/31/2007	6/27/2007
	RL/Regulator Review Draft A WI for 100-B-19	5/31/2007	6/27/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-22	7/2/2007	7/6/2007
	RL/Regulator Review Draft A WI for 100-B-23	6/18/2007	7/16/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-18	7/10/2007	7/17/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-19	7/10/2007	7/17/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-23	7/25/2007	8/1/2007
	RL/Regulator Review Draft A WI for 100-B-27	7/19/2007	8/15/2007
	RL/Regulator Review Draft A WI for 1607-B5	8/2/2007	8/29/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-27	8/27/2007	9/4/2007
	RL/Regulator Sign Rev. 0 WI for 1607-B5	9/11/2007	9/18/2007
	RL/Regulator Review Draft A WI for 100-B-17	1/31/2008	2/28/2008
	RL/Regulator Sign Rev. 0 WI for 100-B-17	3/11/2008	3/18/2008
	RL/Regulator Review Draft A WI for 100-C-7	9/15/2008	10/9/2008
	RL/Regulator Sign Rev. 0 WI for 100-C-7	10/21/2008	10/28/2008
	RL/Regulator Rev of Draft A Closure Doc for 118-C-1	4/24/2007	5/3/2007
	RL/Regulator Rev of Draft A Closure Doc for 118-B-1	5/24/2007	6/28/2007
	RL/Regulator Review Draft A WI for 116-C-3	5/19/2007	5/25/2007
	RL/Regulator Approve/Signature Rev. 0 WI for 116-C-3	6/3/2007	6/8/2007
	RL/Regulator review of Draft A Closure Doc for 116-C-3	7/23/2007	9/4/2007
	RL/Regulator Sign Rev 0 Closure Doc for 116-C-3	9/20/2007	9/26/2007
	RL/Regulator review of Draft A Closure Doc. 100-C-9	4/18/2007	5/22/2007
	RL/Regulator Sign Rev 0 Closure Doc for 100-C-9	6/12/2007	6/18/2007
	RL/Regulator Review Draft A Closure Doc for 1607-B1	7/16/2007	8/28/2007
	RL/Regulator Sign Rev. 0 Closure Doc for 1607-B1	9/20/2007	9/27/2007
100-F	RL/Regulator Review Draft A WI for -1607-F4	5/15/2007	6/12/2007
	RL/Regulator Sign Rev 0 WI for -1607-F4	6/5/2007	6/12/2007
	RL/Regulator Review Draft A Closure Doc for 100-F-26	6/26/2007	8/9/2007
	RL/Regulator Sign.&Issue Rev 0 Closure Docm. 116-F-15	7/3/2007	7/11/2007
	RL/Regulator review of Draft A Closure Docm. 116-F-15	5/8/2007	6/25/2007
	RL/Regulator Sign Rev 0 Closure Doc for 100-F-26	8/13/2007	8/20/2007
	RL/Regulator Review Draft A Closure Doc for -1607-F-4	9/17/2007	10/30/2007
	RL/Regulator Sign Rev 0 Closure Doc for -1607-F4	10/23/2007	10/30/2007
	RL/Regulator Review Draft A WI for -118-F-8	7/2/2007	7/30/2007
	RL/Regulator Sign Rev 0 WI for -118-F-8	7/22/2007	7/30/2007
	RL/Regulator Review Draft A Closure Doc for -100-F-36	5/8/2007	6/25/2007
	RL/Regulator review of Draft A Closure Docm. 128-F-2	7/21/2007	8/19/2007
	RL/Regulator Sign Rev 0 Closure Doc for -100-F-36	7/3/2007	7/11/2007
	RL/Regulator Sign. & Issue Rev 0 Closure Docm.128-F-2	9/8/2007	9/14/2007
	RL/Regulator Review Draft A Closure Doc for -118-F-8	8/8/2007	9/24/2007
	RL/Regulator Sign Rev 0 Closure Doc for -118-F-8	9/17/2007	9/24/2007
	RL/Regulator Review Draft A WI for -1607-F1	6/11/2007	7/8/2007
	RL/Regulator Sign Rev 0 WI for -1607-F1	7/9/2007	7/16/2007
	RL/Regulator Review Draft A Closure Doc for -1607-F1	8/20/2007	10/3/2007
	RL/Regulator Sign Rev 0 Closure Doc for -1607-F1	9/26/2007	10/3/2007
	RL/Regulator Review Draft A Closure Doc for -118-F-5	9/13/2007	10/29/2007
	RL/Regulator Review Draft A Closure Doc for -118-F-2	10/15/2007	11/29/2007

**Field Remediation**  
**Sample Design and Cleanup Verification for the May 2007 UMM**

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
<b>100-F Continued</b>			
	RL/Regulator Sign Rev 0 Closure Doc for -118-F-5	10/22/2007	10/29/2007
	RL/Regulator review of Draft A Closure Docm. 118-F-6	11/1/2007	12/3/2007
	RL/Regulator Review Draft A Closure Doc for -118-F-1	11/1/2007	12/19/2007
	RL/Regulator Sign Rev 0 Closure Doc for -118-F-2	12/3/2007	12/10/2007
	Resolve/Incorp RL/Regulator Commnts Prep Rev.0 118-F-6	12/4/2007	12/5/2007
	RL/Regulator Sign Rev 0 Closure Doc for -118-F-1	12/12/2007	12/19/2007
	RL/Regulator Review Draft A WI 120-F-1	5/15/2007	6/5/2007
	RL/Regulator Approve/Signature Rev. 0 WI 120-F-1	6/13/2007	6/19/2007
	RL/Regulator Review Draft A Closure Doc for -120-F-1	9/13/2007	10/29/2007
	RL/Regulator Sign Rev 0 Closure Doc for -120-F-1	10/30/2007	11/6/2007
	RL/Regulator Review Draft A WI for 100-F-51	5/17/2007	6/14/2007
	RL/Regulator Review Draft A WI for 100-F-54	5/18/2007	6/15/2007
	RL/Regulator Review Draft A WI for 100-F-57	5/18/2007	6/15/2007
	RL/Regulator Review Draft A WI for 100-F-52	5/17/2007	6/14/2007
	RL/Regulator Review Draft A WI for 100-F-44	6/1/2007	6/29/2007
	RL/Regulator Review Draft A WI for 100-F-45	5/8/2007	6/25/2007
	RL/Regulator Review Draft A WI for 100-F-56	5/18/2007	6/15/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-51	6/23/2007	6/28/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-54	5/24/2007	6/4/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-57	5/25/2007	6/5/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-52	5/25/2007	6/5/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-44	7/7/2007	7/14/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-45	7/7/2007	7/14/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-56	6/21/2007	6/28/2007
	RL/Regulator Review Draft A Closure Doc for 100-F-57	10/2/2007	11/14/2007
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-47	10/10/2007	10/17/2007
	RL/Regulator Review Draft A Closure Doc for 100-F-46	12/4/2007	1/22/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-57	12/11/2007	12/18/2007
	RL/Regulator Review Draft A Closure Doc for 100-F-45	12/11/2007	1/29/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-44	12/13/2007	1/31/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-54	12/13/2007	1/31/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-50	12/19/2007	2/6/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-49	12/26/2007	2/11/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-48	1/2/2008	2/14/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-56	1/23/2008	3/10/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-51	1/31/2008	3/18/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-52	2/7/2008	3/25/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-46	2/13/2008	2/21/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-53	2/14/2008	4/1/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-45	2/21/2008	2/28/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-44	2/26/2008	3/4/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-54	2/26/2008	3/4/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-50	3/3/2008	3/10/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-49	3/5/2008	3/12/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-48	3/11/2008	3/18/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-56	4/1/2008	4/8/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-51	4/9/2008	4/16/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-52	4/16/2008	4/23/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-53	4/23/2008	4/30/2008

**Field Remediation**  
**Sample Design and Cleanup Verification for the May 2007 UMM**

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
100-D	RL/Regulator Review Draft A WI for 100-D-30	6/4/2007	6/28/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-30	6/21/2007	6/28/2007
	RL/Regulator Review Draft A WI for 126-DR-1	8/14/2007	9/11/2007
	RL/Reg Review Draft A Closure Doc for 100-D-30	8/28/2007	10/11/2007
	RL/Regulator Sign Rev. 0 WI for 126-DR-1	9/4/2007	9/11/2007
	RL/Regulator Review Draft A WI for 100-D-56	6/14/2007	7/11/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-56	7/20/2007	7/27/2007
	RL/Regulator Review Draft A Closure Doc for 100-D-56	10/21/2007	12/4/2007
	RL/Regulator Review Draft A WI for 120-D-2	8/30/2007	9/27/2007
	RL/Regulator Sign Rev. 0 WI for 120-D-2	9/20/2007	9/27/2007
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-56	12/27/2007	1/4/2008
	RL/Regulator Review Draft A Closure Doc for 120-D-2	3/5/2008	3/26/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 120-D-2	3/19/2008	3/26/2008
	RL/Regulator Review Draft A WI for 100-D-29	9/22/2008	1/6/2009
	RL/Regulator Sign Rev. 0 WI for 100-D-29	12/29/2008	1/6/2009
	RL/Regulator Review Draft A WI for UPR-100-D-5	1/7/2009	1/22/2009
	RL/Regulator Review Draft A WI for 100-D-1	1/13/2009	2/9/2009
	RL/Regulator Sign Rev. 0 WI for UPR-100-D-5	1/15/2009	1/22/2009
	RL/Regulator Sign Rev. 0 WI for 100-D-1	2/2/2009	2/9/2009
	RL/Regulator Review Draft A Closure Doc for 100-D-29	5/13/2009	6/29/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-29	6/22/2009	6/29/2009
	RL/Regulator Review Draft A Closure Doc for UPR-100-D-5	8/5/2009	9/21/2009
	RL/Regulator Review Draft A Closure Doc for 100-D-1	8/25/2009	10/6/2009
	RL/Regulator Sign Rev. 0 Closure Doc for UPR-100-D-5	9/14/2009	9/21/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-1	9/29/2009	10/6/2009
	RL/Regulator Review Draft A Closure Doc for 100-D-1	10/5/2009	10/6/2009
	RL/Regulator Review Draft A WI for 100-D-32	12/13/2007	1/15/2008
	RL/Regulator Review Draft A WI for 100-D-3	12/31/2007	1/28/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-32	1/8/2008	1/15/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-3	1/21/2008	1/28/2008
	RL/Regulator Review Draft A WI for 100-D-41	3/27/2008	4/23/2008
	RL/Regulator Review Draft A WI for 100-D-33	4/1/2008	4/28/2008
	RL/Regulator Review Draft A WI for 100-D-35	4/3/2008	4/30/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-41	4/16/2008	4/23/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-33	4/21/2008	4/28/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-35	4/23/2008	4/30/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-32	6/12/2008	7/8/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-32	6/17/2008	7/8/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-32	6/30/2008	7/8/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-3	8/7/2008	9/23/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-3	9/16/2008	9/23/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-41	10/9/2008	11/24/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-33	11/4/2008	12/22/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-41	11/17/2008	11/24/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-33	12/15/2008	12/22/2008
	RL/Regulator Review Draft A WI for 1607-D2:2	12/18/2008	2/5/2009
	RL/Regulator Review Draft A Closure Doc for 100-D-35	1/14/2009	3/2/2009
	RL/Regulator Sign Rev. 0 WI for 1607-D2:2	1/29/2009	2/5/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-35	2/23/2009	3/2/2009
	RL/Regulator Review Draft A Closure Doc for 1607-D2:2	8/19/2009	10/5/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 1607-D2:2	9/28/2009	10/5/2009
	RL/Regulator Review Draft A WI for 126-D-2	9/23/2010	10/20/2010
	RL/Regulator Sign Rev. 0 WI for 126-D-2	10/13/2010	10/20/2010

**Field Remediation**  
**Sample Design and Cleanup Verification for the May 2007 UMM**

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
100-D Continued			
	RL/Regulator Review Draft A Closure Doc for 126-D-2	3/7/2011	4/19/2011
	RL/Regulator Sign Rev. 0 Closure Doc for 126-D-2	4/12/2011	4/19/2011
	RL/Regulator Review Draft A WI for 100-D-30	5/3/2007	5/31/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-30	5/23/2007	5/31/2007
	RL/Regulator Review Draft A Closure Doc for 100-D-30	8/14/2007	9/27/2007
	RL/Regulator Review Draft A WI for 100-D-2	8/30/2007	9/27/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-2	9/20/2007	9/27/2007
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-30	9/20/2007	9/27/2007
	RL/Regulator Review Draft A Closure Doc for 100-D-2	2/20/2008	3/26/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-2	3/19/2008	3/26/2008
	RL/Regulator Review Draft A WI for 100-D-31	11/25/2008	12/29/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-31	1/8/2009	1/15/2009
	RL/Regulator Review Draft A WI for 116-D-5	1/22/2009	2/19/2009
	RL/Regulator Review Draft A WI for 116-DR-5	2/2/2009	3/2/2009
	RL/Regulator Sign Rev. 0 WI for 116-D-5	2/11/2009	2/19/2009
	RL/Regulator Sign Rev. 0 WI for 116-DR-5	2/24/2009	3/2/2009
	RL/Regulator Review Draft A Closure Doc for 100-D-31	4/16/2009	6/2/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-31	6/24/2009	7/1/2009
	RL/Regulator Review Draft A Closure Doc for 116-D-5	9/16/2009	10/15/2009
	RL/Regulator Review Draft A Closure Doc for 116-DR-5	9/21/2009	10/19/2009
	RL/Regulator Review Draft A Closure Doc for 116-DR-5	10/5/2009	10/19/2009
	RL/Regulator Review Draft A Closure Doc for 116-D-5	10/7/2009	10/15/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 116-D-5	10/8/2009	10/15/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 116-DR-5	10/12/2009	10/19/2009
	RL/Regulator Review Draft A WI for 100-D-61	4/21/2011	5/18/2011
	RL/Regulator Sign Rev. 0 WI for 100-D-61	5/11/2011	5/18/2011
	RL/Regulator Review Draft A Closure Doc for 100-D-61	9/8/2011	10/24/2011
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-61	10/17/2011	10/24/2011
	RL/Regulator Review Draft A WI for 126-DR-1	7/26/2007	8/22/2007
	RL/Regulator Sign Rev. 0 WI for 126-DR-1	8/15/2007	8/22/2007
	RL/Regulator Review Draft A Closure Doc for 126-DR-1	2/11/2008	3/26/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 126-DR-1	3/19/2008	3/26/2008
	RL/Regulator Review Draft A WI for 100-D-47	12/13/2007	1/15/2008
	RL/Regulator Review Draft A WI for 100-D-43	12/19/2007	1/21/2008
	RL/Regulator Review Draft A WI for 100-D-45	12/27/2007	1/15/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-45	1/8/2008	1/15/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-47	1/8/2008	1/15/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-43	1/14/2008	1/21/2008
	RL/Regulator Review Draft A WI for 100-D-40	3/25/2008	4/21/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-40	4/14/2008	4/21/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-47	5/21/2008	7/8/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-45	6/25/2008	7/15/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-47	7/1/2008	7/8/2008
	RL/Regulator Review Draft A WI for 118-D-4	7/7/2008	7/31/2008
	RL/Regulator Review Draft A WI for 118-D-1	7/14/2008	8/7/2008
	RL/Regulator Sign Rev. 0 WI for 118-D-4	7/24/2008	7/31/2008
	RL/Regulator Sign Rev. 0 WI for 118-D-1	7/31/2008	8/7/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-43	7/31/2008	9/16/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-45	8/14/2008	9/10/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-45	9/3/2008	9/10/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-43	9/9/2008	9/16/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-40	10/1/2008	10/22/2008
	RL/Regulator Review Draft A WI for 118-D-5	10/15/2008	12/2/2008

**Field Remediation**  
**Sample Design and Cleanup Verification for the May 2007 UMM**

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
<b>100-D Continued</b>			
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-40	10/21/2008	10/22/2008
	RL/Regulator Review Draft A WI for 118-DR-1	10/21/2008	12/8/2008
	RL/Regulator Sign Rev. 0 WI for 118-D-5	11/20/2008	12/2/2008
	RL/Regulator Sign Rev. 0 WI for 118-DR-1	12/1/2008	12/8/2008
	RL/Regulator Review Draft A WI for 118-D-3	12/16/2008	1/15/2009
	RL/Regulator Review Draft A Closure Doc for 118-D-4	12/31/2008	2/17/2009
	RL/Regulator Sign Rev. 0 WI for 118-D-3	1/8/2009	1/15/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-D-4	2/9/2009	2/17/2009
	RL/Regulator Review Draft A Closure Doc for 118-D-1	4/16/2009	6/2/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-D-1	5/26/2009	6/2/2009
	RL/Regulator Review Draft A Closure Doc for 118-D-5	6/17/2009	8/3/2009
	RL/Regulator Review Draft A Closure Doc for 118-DR-1	7/1/2009	8/17/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-D-5	7/27/2009	8/3/2009
	RL/Regulator Review Draft A Closure Doc for 118-D-3	7/29/2009	9/14/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-DR-1	8/10/2009	8/17/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-D-3	9/3/2009	9/14/2009
	RL/Regulator Review Draft A WI for 118-D-2	9/10/2009	10/7/2009
	RL/Regulator Sign Rev. 0 WI for 118-D-2	9/30/2009	10/7/2009
	RL/Regulator Review Draft A Closure Doc for 118-D-2	3/24/2010	5/6/2010
	RL/Regulator Sign Rev. 0 Closure Doc for 118-D-2	4/29/2010	5/6/2010
	RL/Regulator Review Draft A WI for 116-D-8	9/21/2009	10/15/2009
	RL/Regulator Sign Rev. 0 WI for 116-D-8	10/8/2009	10/15/2009
	RL/Regulator Review Draft A Closure Doc for 116-D-8	4/13/2010	5/26/2010
	RL/Regulator Sign Rev. 0 Closure Doc for 116-D-8	5/19/2010	5/26/2010
	RL/Regulator review Draft A Closure Doc 10D-50:2	4/18/2007	5/22/2007
	RL/Regulator Sign & Issue Rev 0 Closure Doc.100-D-50:2	6/11/2007	6/14/2007
	RL/Regulator review of Draft A Closure Doc for 100-D-1	9/13/2007	10/17/2007
	DOE/EPA/Review & Approval AMP for 100 D Desin	4/9/2007	5/3/2007
<b>100-H</b>			
	RL/Regulator Review Draft A WI for 116-H-9	11/29/2007	12/31/2007
	RL/Regulator Sign Rev. 0 WI for 116-H-9	1/10/2008	1/17/2008
	RL/Regulator Review Draft A WI for 116-H-5	3/11/2008	4/7/2008
	RL/Regulator Review Draft A WI for 100H Mud Daubers	3/12/2008	4/8/2008
	RL/Regulator Sign Rev. 0 WI for 116-H-5	4/16/2008	4/23/2008
	RL/Regulator Sign Rev. 0 WI for 100H Mud Daubers	4/17/2008	4/24/2008
	RL/Regulator Review Draft A WI for 118-H-6	8/26/2008	9/23/2008
	RL/Regulator Review Draft A WI for 100-H-33	9/17/2008	10/14/2008
	RL/Regulator Sign Rev. 0 WI for 118-H-6	10/2/2008	10/9/2008
	RL/Regulator Review Draft A Clos Doc for 116-H-9	10/2/2008	11/17/2008
	RL/Regulator Sign Rev. 0 WI for 100-H-33	10/23/2008	10/30/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 116-H-9	12/11/2008	12/18/2008
	RL/Regulator Review Draft A Clos Doc for 116-H-5	1/6/2009	2/19/2009
	RL/Regulator Review Draft A Clos Doc for 100H Mud Dauber	1/6/2009	2/19/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 116-H-5	3/16/2009	3/23/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 100H Mud Dauber	3/16/2009	3/23/2009
	RL/Regulator Review Draft A Clos Doc for 118-H-6	7/1/2009	8/17/2009
	RL/Regulator Review Draft A WI for 100-H-34	7/14/2009	8/10/2009
	RL/Regulator Review Draft A Clos Doc for 100-H-33	7/23/2009	9/8/2009
	RL/Regulator Sign Rev. 0 WI for 100-H-34	8/19/2009	8/26/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-H-6	9/9/2009	9/16/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-33	10/1/2009	10/8/2009
	RL/Regulator Review Draft A Clos Doc for 100-H-34	5/18/2010	7/1/2010

**Field Remediation**  
**Sample Design and Cleanup Verification for the May 2007 UMM**

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
<b>100-H Continued</b>			
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-34	7/27/2010	8/3/2010
	RL/Regulator Review Draft A WI for 600-152	12/26/2007	1/23/2008
	RL/Regulator Sign Rev. 0 WI for 600-152	2/4/2008	2/11/2008
	RL/Regulator Review Draft A WI for 118-H-1	8/25/2008	9/22/2008
	RL/Regulator Review Draft A WI for 118-H-2	9/25/2008	10/22/2008
	RL/Regulator Sign Rev. 0 WI for 118-H-1	10/1/2008	10/8/2008
	RL/Regulator Review Draft A Clos Doc for 600-152	10/27/2008	12/11/2008
	RL/Regulator Sign Rev. 0 WI for 118-H-2	11/3/2008	11/10/2008
	RL/Regulator Review Draft A WI for 118-H-3	11/3/2008	12/2/2008
	RL/Regulator Review Draft A WI for 118-H-4	11/10/2008	12/9/2008
	RL/Regulator Review Draft A WI for 118-H-5	11/12/2008	12/11/2008
	RL/Regulator Sign Rev. 0 WI for 118-H-3	12/11/2008	12/18/2008
	RL/Regulator Sign Rev. 0 WI for 118-H-4	12/18/2008	12/30/2008
	RL/Regulator Sign Rev. 0 WI for 118-H-5	12/23/2008	1/5/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 600-152	1/8/2009	1/15/2009
	RL/Regulator Review Draft A Clos Doc for 118-H-1	6/30/2009	8/13/2009
	RL/Regulator Review Draft A Clos Doc for 118-H-2	8/3/2009	9/16/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-H-1	9/8/2009	9/15/2009
	RL/Regulator Review Draft A Clos Doc for 118-H-3	9/9/2009	10/22/2009
	RL/Regulator Review Draft A Clos Doc for 118-H-4	9/16/2009	10/29/2009
	RL/Regulator Review Draft A Clos Doc for 118-H-5	9/21/2009	11/3/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-H-2	10/8/2009	10/15/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-H-3	11/16/2009	11/23/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-H-4	11/23/2009	12/2/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-H-5	11/30/2009	12/7/2009
	Regulator Approve/Sign Rev. 0 WI 100-H-28:9	4/2/2007	4/5/2007
	Regulator Approv/Sign Rev.0 Closure Doc 100-H-28:10	4/2/2007	4/5/2007
	RL/Regulator Review Draft A Closure Doc for 128-H-3	7/3/2007	8/16/2007
	RL/Regulator Review Draft A Closure Doc for 128-H-2	7/12/2007	8/27/2007
	RL/Regulator Sign Rev. 0 Closure Doc for 128-H-3	9/11/2007	9/18/2007
	RL/Regulator Sign Rev. 0 Closure Doc for 128-H-2	9/19/2007	9/26/2007
	RL/Regulator Review Draft A Closure Doc for 100-H-28:2	8/14/2008	9/30/2008
	RL/Regulator Review Draft A Closure Doc for 100-H-28:3	8/20/2008	10/6/2008
	RL/Regulator Review Draft A Closure Doc for 100-H-28:4	8/26/2008	10/9/2008
	RL/Regulator Review Draft A Closure Doc for 100-H-28:5	9/2/2008	10/15/2008
	RL/Regulator Review Draft A Closure Doc for 100-H-3	9/8/2008	10/21/2008
	RL/Regulator Review Draft A Closure Doc for 100-H-4	9/11/2008	10/27/2008
	RL/Regulator Review Draft A Closure Doc for 100-H-7	9/17/2008	10/30/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-28:2	10/22/2008	10/29/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-28:3	10/28/2008	11/4/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-28:4	11/3/2008	11/10/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-28:5	11/6/2008	11/13/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-3	11/12/2008	11/19/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-4	11/18/2008	11/25/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-7	11/24/2008	12/3/2008
<b>100-N</b>			
	Regulator Sign Rev 0 Closure Doc for 116-N-1	3/26/2007	3/29/2007
	DOE Review Bid for 100 N Design	2/29/2008	3/29/2008
	RL/Regulator Review Draft A WI for 100-N-28	11/27/2007	12/26/2007
	RL/Regulator Review Draft A WI for 100-N-53	12/4/2007	1/3/2008
	RL/Regulator Review Draft A WI for 100-N-55	12/11/2007	1/10/2008
	RL/Regulator Review Draft A WI for 100-N-65	12/18/2007	1/17/2008

**Field Remediation**  
**Sample Design and Cleanup Verification for the May 2007 UMM**

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
<b>100-N Continued</b>			
	RL/Regulator Review Draft A WI for 100-N-66	12/27/2007	1/24/2008
	RL/Regulator Review Draft A WI for 100-N-68	1/7/2008	1/31/2008
	RL/Regulator Sign Rev. 0 WI for 100-N-28	1/8/2008	1/15/2008
	RL/Regulator Review Draft A WI for 100-N-79	1/14/2008	2/7/2008
	RL/Regulator Sign Rev. 0 WI for 100-N-53	1/15/2008	1/22/2008
	RL/Regulator Review Draft A WI 100-N-62 Pipes	1/21/2008	2/14/2008
	RL/Regulator Review Draft A WI for 120-N-4	1/21/2008	2/14/2008
	RL/Regulator Review Draft A WI for 628-2	1/21/2008	2/14/2008
	RL/Regulator Sign Rev. 0 WI for 100-N-55	1/22/2008	1/29/2008
	RL/Regulator Sign Rev. 0 WI for 100-N-65	1/29/2008	2/5/2008
	RL/Regulator Sign Rev. 0 WI for 100-N-66	2/5/2008	2/12/2008
	RL/Regulator Sign Rev. 0 WI for 100-N-68	2/12/2008	2/20/2008
	RL/Regulator Sign Rev. 0 WI for 100-N-79	2/20/2008	2/27/2008
	RL/Regulator Sign Rev. 0 WI 100-N-62 Pipes	2/27/2008	3/5/2008
	RL/Regulator Sign Rev. 0 WI for 120-N-4	2/27/2008	3/5/2008
	RL/Regulator Sign Rev. 0 WI for 628-2	2/27/2008	3/5/2008
	RL/Regulator Review Draft A WI 100 N Misc Pipe	4/17/2008	5/14/2008
	RL/Regulator Sign Rev. 0 WI 100N Misc Pipe	5/27/2008	6/3/2008
	RL/Regulator Review Draft A Closure Doc for 100-N-28	5/29/2008	7/15/2008
	RL/Regulator Review Draft A Closure Doc for 100-N-53	6/5/2008	7/22/2008
	RL/Regulator Review Draft A Closure Doc for 100-N-55	6/12/2008	7/29/2008
	RL/Regulator Review Draft A Closure Doc for 100-N-65	7/14/2008	8/26/2008
	RL/Regulator Review Draft A Closure Doc for 100-N-66	7/21/2008	9/3/2008
	RL/Regulator Review Draft A Closure Doc 100-N-62 Pipes	7/28/2008	9/10/2008
	RL/Regulator Review Draft A Closure Doc for 100-N-68	7/28/2008	9/10/2008
	RL/Regulator Review Draft A Closure Doc for 100-N-79	8/4/2008	9/17/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-N-28	8/6/2008	8/13/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-N-53	8/13/2008	8/20/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-N-55	8/20/2008	8/27/2008
	RL/Regulator Review Draft A Closure Doc for 120-N-4	9/2/2008	10/15/2008
	RL/Regulator Review Draft A Closure Doc for 628-2	9/9/2008	10/22/2008
	RL/Regulator Review Draft A Closure Doc 100N Misc Pipe	9/16/2008	10/29/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-N-65	9/18/2008	9/25/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-N-66	9/25/2008	10/2/2008
	RL/Regulator Sign Rev. 0 Closure Doc 100-N-62 Pipes	10/2/2008	10/9/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-N-68	10/2/2008	10/9/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-N-79	10/9/2008	10/16/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 120-N-4	11/6/2008	11/13/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 628-2	11/13/2008	11/20/2008
	RL/Regulator Sign Rev. 0 Closure Doc 100N Misc Pipe	11/20/2008	12/2/2008
<b>100 AREA</b>			
	RL/Regulator Review of Draft A ESD for 100 Area	5/7/2007	7/26/2007



## **Attachment 9**

#### Status for 300 Area Field Remediation

- Start of 618-7 has been delayed until completion of WCH ISMS validation (expected to occur this October).
- Development of work packages for 618-7 remediation continues.
- Work Planning for 600-243, 300-274, 300-275, and 618-13 has begun to fill in with work at lower risk sites until 618-7 can commence.

## **Attachment 10**

Unit Manager Meeting  
May 10, 2007

118-B-1

- Tritium Bore Hole – complete. See draft/preliminary sample results.
- Anomaly work – A total of 40 containers remain. See Schedule.
- SNF Characterization/Shipment. See Schedule.
- Continue to load-out contaminated material for north BCL pile.

116-C-3

- Continuously working with the subcontractor on remedial options. See Schedule.
- A dust mitigation mockup will be scheduled in the near future.

100-C-7

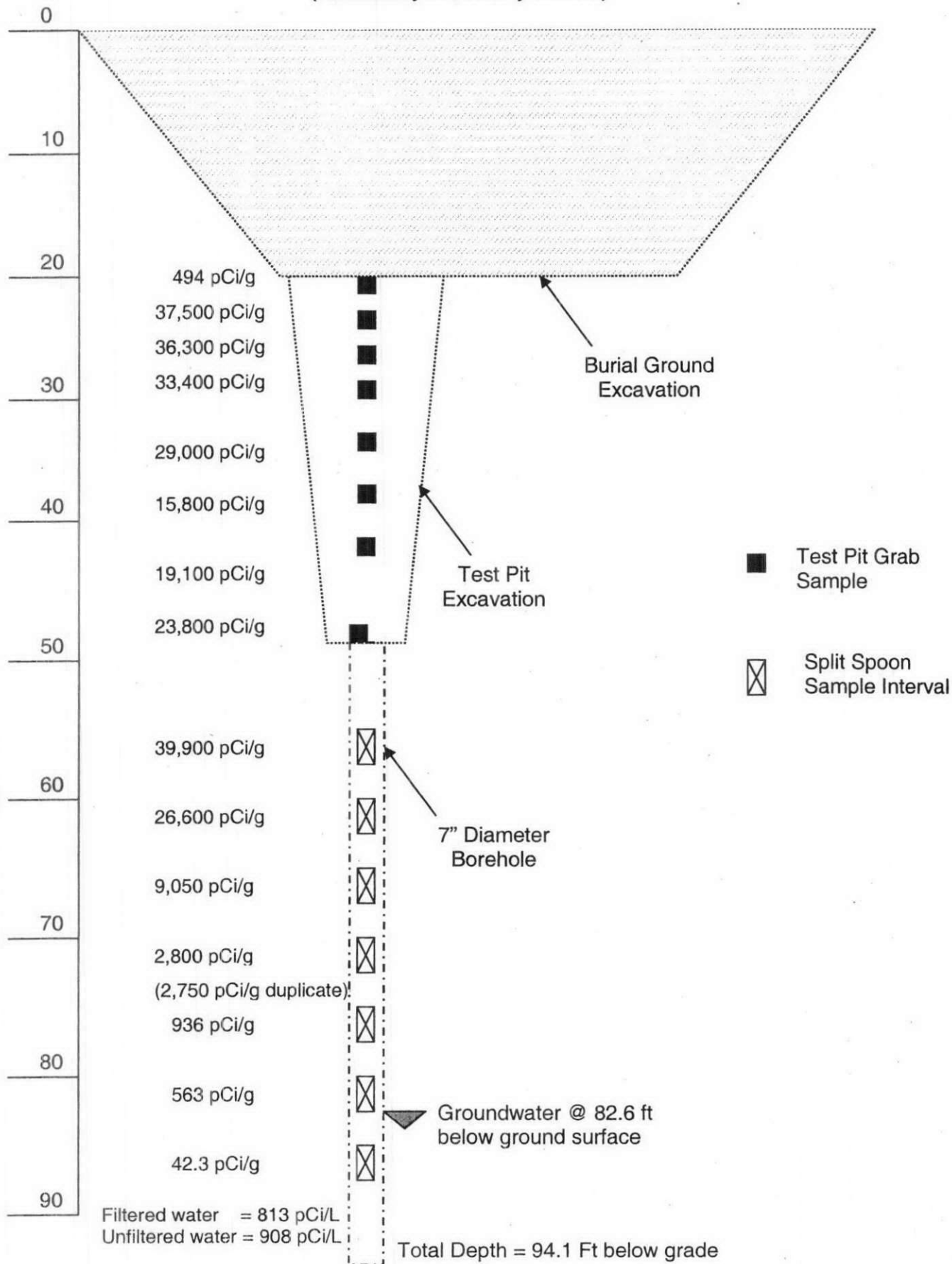
- Bore holes scheduled for June.
- The design schedule may slip a few months due to the conversion of two boreholes to long term groundwater monitoring wells.

Miscellaneous

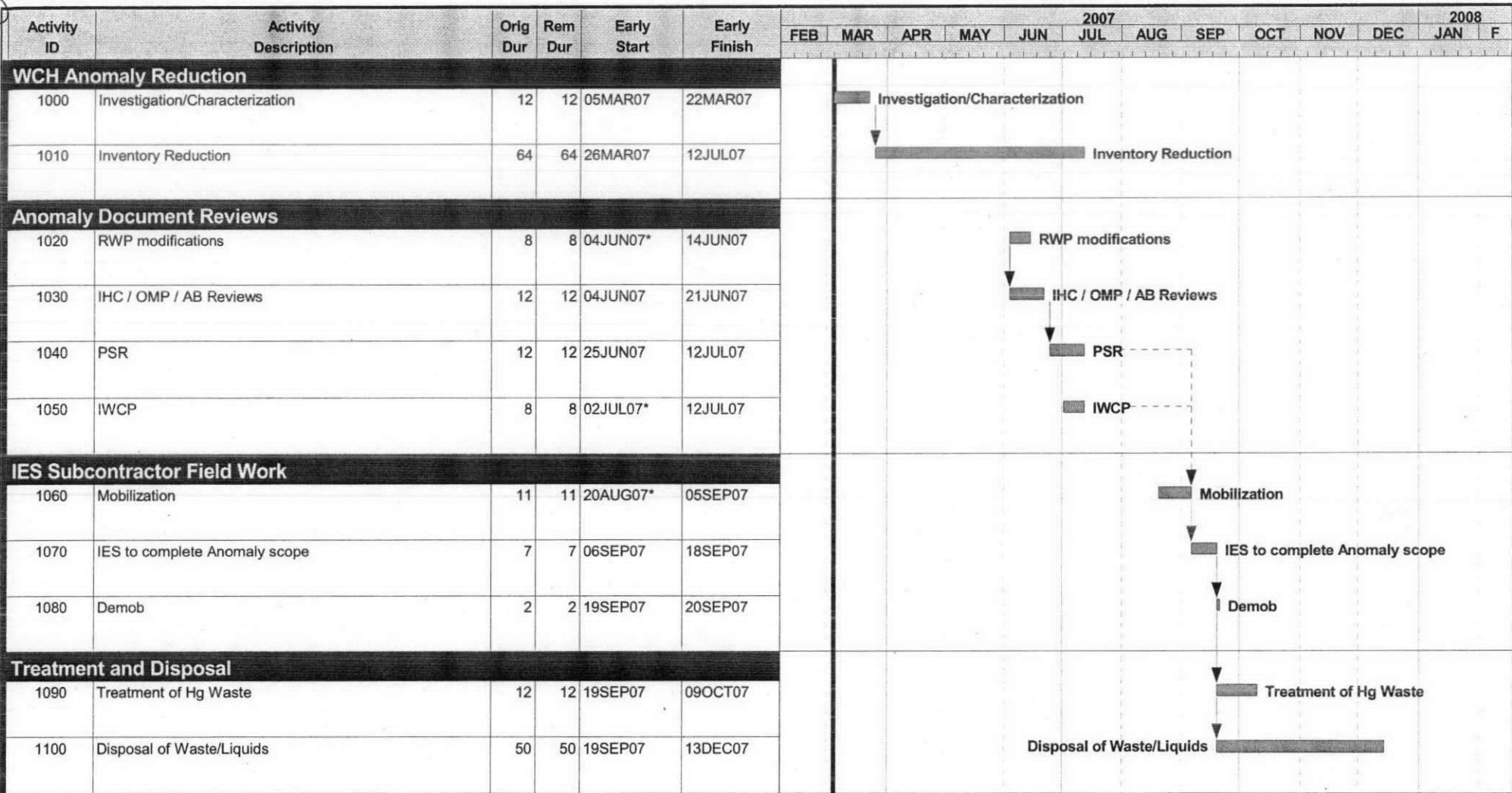
- The following small sites have been pulled ahead in the schedule to allow efficient use of subcontractor resources (priority sites being 116-C-3 and 188-B-1):
  - 100-B-27 Remediation
  - 1607-B1 Septic – characterization support.
  - 1607-B-5 Sample support
  - 100-B-21 Remediation
  - 100-B-18 Remediation
  - 100-B-19 Remediation
  - 100-B-23 Remediation

Depth in feet below grade

# 118-B-1 Tritium Results (Preliminary Laboratory Results)







Start Date 01JAN07  
Finish Date 13DEC07  
Data Date 05MAR07  
Run Date 05APR07 14:34

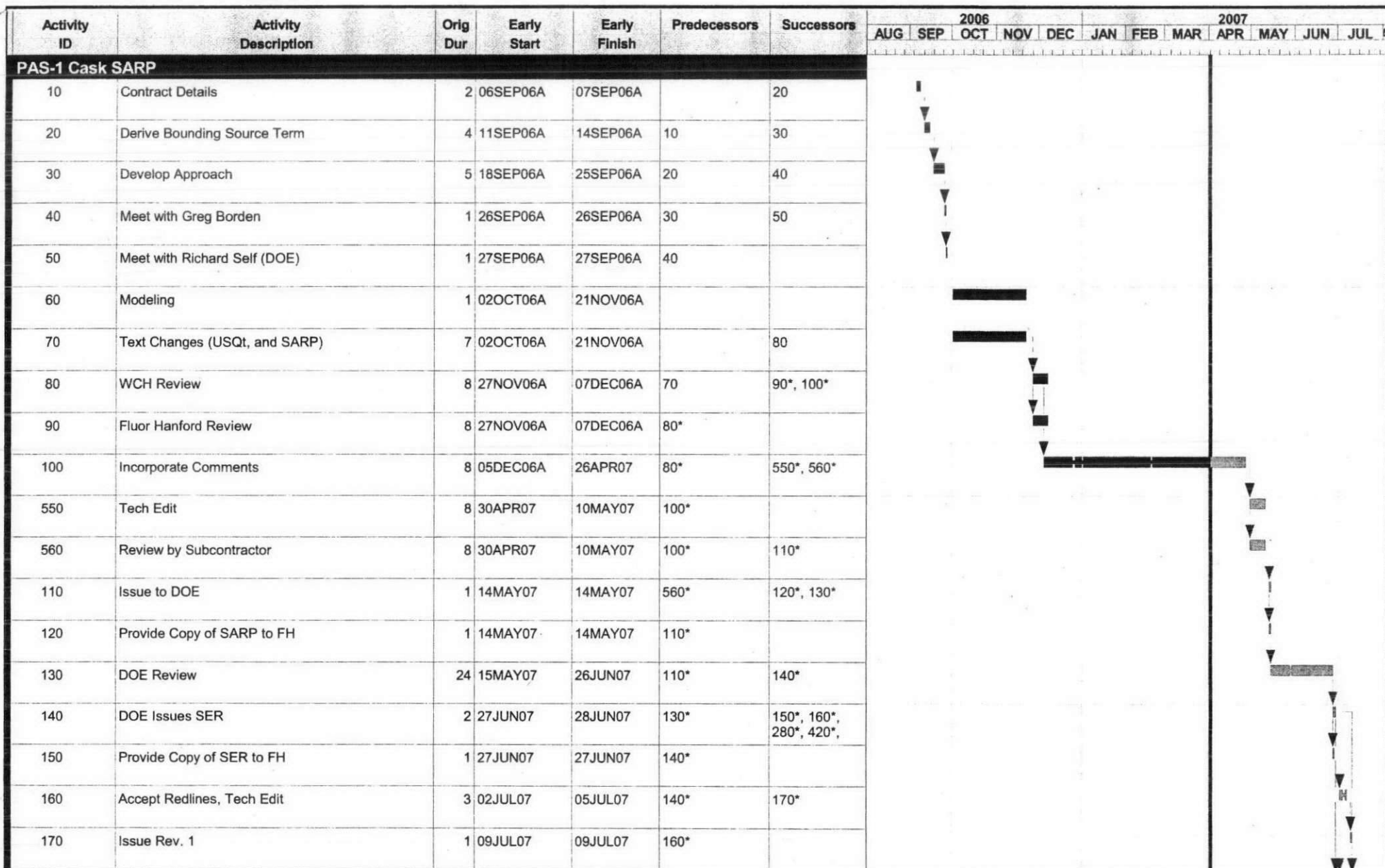
Early Bar  
Progress Bar  
Critical Activity

ANOM

WCH  
100BC Anomalies  
Classic Schedule Layout

Sheet 1 of 1

Date	Revision	Checked	Approved



Start Date 29AUG05  
 Finish Date 31JUL07  
 Data Date 02APR07  
 Run Date 18APR07 14:00

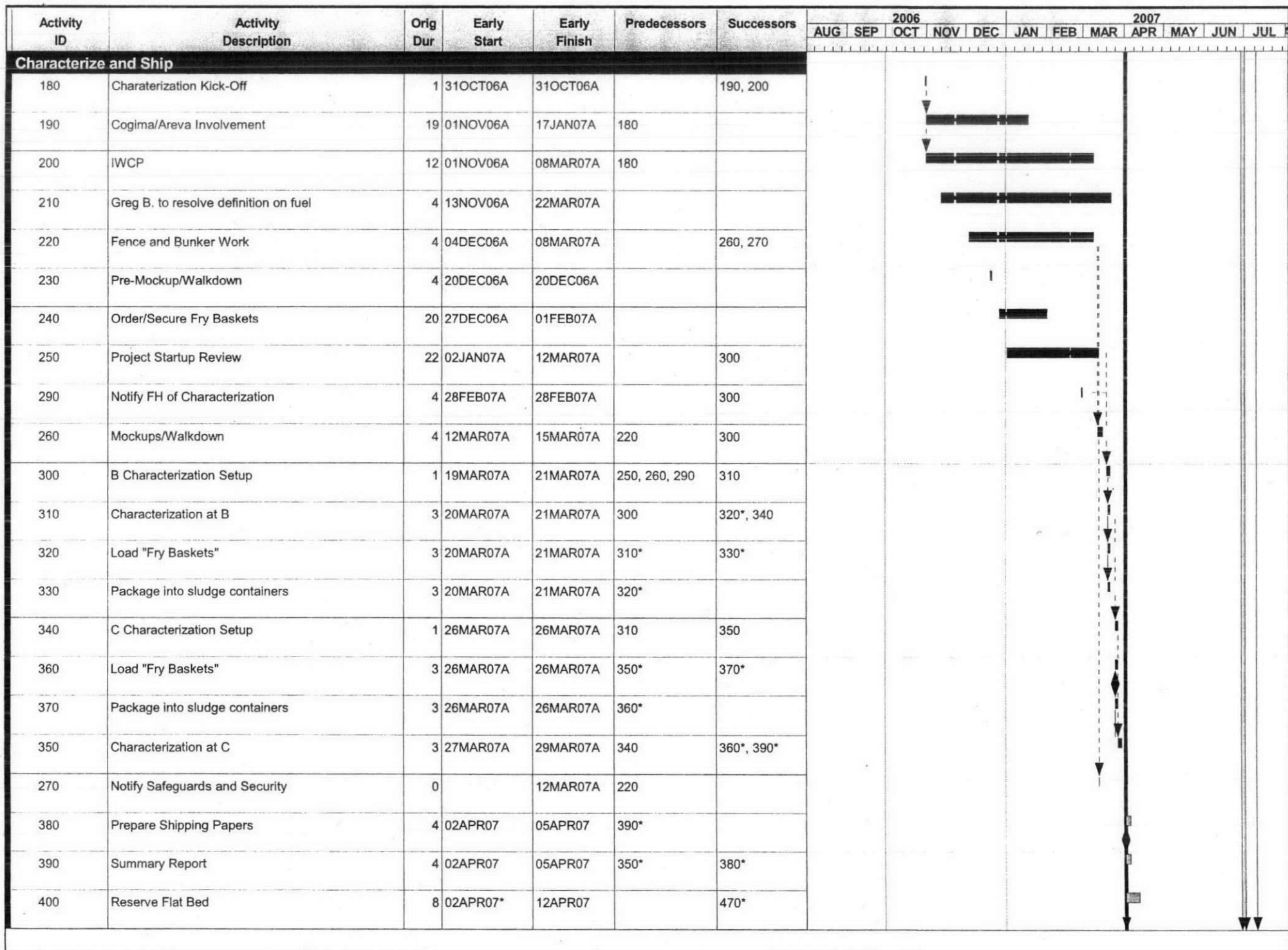
Early Bar  
 Progress Bar  
 Critical Activity

SNFT

Sheet 1 of 3

WCH  
 Spent Nuclear Fuel Transfer





Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Predecessors	Successors	2006					2007						
							AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
600	Work Package Development	34	01MAY07	28JUN07	140*	420*												
590	PSR	17	31MAY07	28JUN07	140*	420*												
410	Notify Fluor	1	26JUN07	26JUN07	430*													
280	PSI (Greg B)	4	02JUL07	09JUL07	140*													
420	Load and Tiedown #1	1	02JUL07	02JUL07	140*, 590*, 600*	430*												
430	Shipment # 1	4	03JUL07	10JUL07	420*	410*, 440*												
440	Load and Tiedown #2	1	11JUL07	11JUL07	430*	450*												
450	Shipment # 2	4	12JUL07	18JUL07	440*	570*												
570	Load and Tiedown #3	1	19JUL07	19JUL07	450*	580*												
580	Shipment # 3	4	23JUL07	26JUL07	570*													
<b>Casks</b>																		
470	Reserve Crane	8	02APR07	12APR07	400*	480*												
480	Load Cask A on Flatbed	1	16APR07	16APR07	470*	490*												
490	Deliver Cask A to BC	1	17APR07	17APR07	480*	500*												
500	Unload Cask A at BC	1	18APR07	18APR07	490*													
460	Schedule Repair & ID of Resources of Cask B	8	02JUL07*	16JUL07	140*													
510	Prepare for Repair of Cask B	8	02JUL07	16JUL07	140*	520*												
520	Repair Cask B	4	17JUL07	23JUL07	510*	530*												
530	Leak Test Cask B	4	24JUL07	30JUL07	520*	540*												
540	Cask B Certified	1	31JUL07	31JUL07	530*													

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2006					2007							
					AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
Design Revisions																	
10000	Prepare Project Schedule (Carlson)	2	30OCT06A	31OCT06A													
10010	Prepare Design Documents Checklist (Carlson)	2	30OCT06A	31OCT06A													
10020	Confirm Revisions Req'd or Not (Tina)	2	01NOV06A	02NOV06A													
10030	Incorporate Changes (if needed) (Tina)	2	06NOV06A	07NOV06A													
10040	Revise Exh. D (Tina)	4	06NOV06A	09NOV06A													
10050	Revise Exh. E (Tina)	4	06NOV06A	09NOV06A													
10060	Revise Exh. F (Bentz)	8	06NOV06A	21NOV06A													
10070	New Thermo-Calc(s) (Tina)	8	06NOV06A	05DEC06A													
10110	Design Discuss/Treatment w/Regulator (Dean)	2	06NOV06A	06DEC06A													
10120	Revise Treatment Plan (Peloquin)	4	06NOV06A	27NOV06A													
10080	Design Review (Tina)	4	27NOV06A	30NOV06A													
10130	Internal Review Treatment Plan (Peloquin)	1	28NOV06A	28NOV06A													
10140	Inc. Comments into Treatment Plan (Peloquin)	1	28NOV06A	28NOV06A													
10150	Reg'r Review Treatment Plan (DOE/EPA)	12	28NOV06A	12DEC06A													
10090	Incorp. Review Comments (Tina)	4	30NOV06A	07DEC06A													
10160	Incorporate Reg'r Comments (Peloquin)	2	13DEC06A	14DEC06A													
10170	Issue Treatment Plan (Peloquin)	0	03JAN07A														
10100	Issue Change Notice (Tina)	2		12DEC06A													
Revise Change Notice																	
10460	Revise Description of Work (Tina)	1	07FEB07A	07FEB07A													

Start Date29AUG05

Finish Date31OCT07

Data Date19FEB07

Run Date05APR07 14:35

Early Bar

Progress Bar

Critical Activity

R1C3

WCH

116-C-3 Remediation

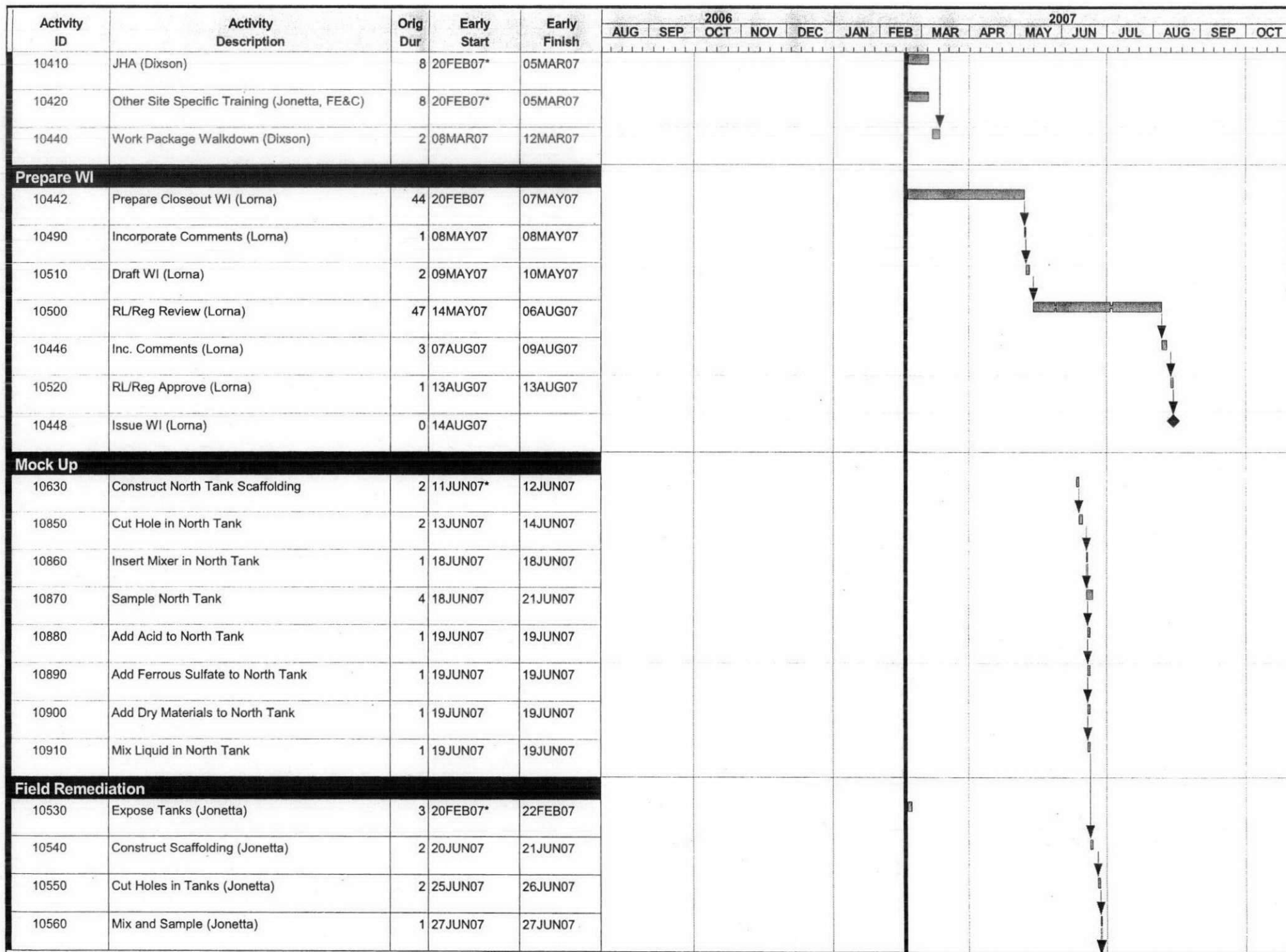
Sheet 1 of 6

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2006					2007									
					AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
10200	Review and Approve Submittals (Jonetta)	8	22MAY07	05JUN07															
<b>Project Startup Review</b>																			
10220	Reviewers Conduct Reviews (Decker)	22	28NOV06A	15MAR07															
10210	Prepare PSR Plan/Checklist (Decker)	8	29NOV06A	18JAN07A															
10230	Document Reviews (Decker)	4	30MAY07	05JUN07															
10240	Conduct Review Mtg/Post Startup Items (Decker)	1	06JUN07	06JUN07															
10250	Director Authorize Work To Proceed (Donahoe)	0	07JUN07																
<b>Prepare and/or Revise &amp; Issue Doc's</b>																			
10330	OMP (Pitts, Ware)	20	15NOV06A	05MAR07															
10350	Engineering Crosswalk (Strom)	8	15NOV06A	20FEB07															
10360	Waste Profile (Stocker)	8	28NOV06A	21FEB07															
10260	Survey Req'mts Tech Assessment (Wiles)	4	04DEC06A	20FEB07															
10300	JHA (Dixson)	12	04DEC06A	05MAR07															
10310	Excavation Permit (Jonetta)	12	04DEC06A	05MAR07															
10320	SSWMI (Stocker)	12	04DEC06A	05MAR07															
10340	TI/AB Compliance (Dixson, Strom)	12	04DEC06A	05MAR07															
10370	SAF (Charlene)	8	04DEC06A	26FEB07															
10270	ERSTI (Wiles)	4	21FEB07	27FEB07															
10280	ALARA Review (Jonetta)	4	21FEB07	27FEB07															
10380	Other Doc's (Dixson)	2	22FEB07	26FEB07															
10290	RWP (Wiles)	4	28FEB07	06MAR07															
<b>Conduct Training</b>																			
10430	Perform other Readiness Activities (Jonetta)	20	27NOV06A	12MAR07															
10390	IHE/OMP (Tina)	8	20FEB07*	20FEB07															
10400	RWP (Jonetta)	8	20FEB07*	05MAR07															







Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2006												2007											
					AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT									
10820	Inc. Comments (Loma)	3	25OCT07	30OCT07																								
10830	RI/EPA Sign (Loma)	1	31OCT07	31OCT07																								
10840	Issue RSVP (Loma)	0	01NOV07																									



## **Attachment 11**

(11)

**Shea, Jacqueline (ECY)**

---

**From:** Zeisloft, Jamie [Jamie\_Zeisloft@RL.gov]  
**Sent:** Monday, April 30, 2007 5:09 PM  
**To:** Shea, Jacqueline (ECY)  
**Cc:** Price, John (ECY); Huckaby, Alisa (ECY); Bazzell, Kevin D  
**Subject:** RE: 126-D-1 Ash Disposal Pit

Interesting issue Jacqui. Thanks for the notice, we're looking into it and will get back to you soon.

---

**From:** Shea, Jacqueline (ECY) [mailto:jash461@ecy.wa.gov]  
**Sent:** Thursday, April 19, 2007 4:33 PM  
**To:** Zeisloft, Jamie  
**Cc:** Price, John (ECY); Huckaby, Alisa D  
**Subject:** 126-D-1 Ash Disposal Pit

Hi Jamie,

John recommended that we speak to you regarding data we saw in HEIS related to the 126-D-1 Ash disposal pit and 100-D Ponds. WIDS reports four samples of ash and a duplicate that were taken at the site (B07258, B07259, B07260, B07261, and B07262). We noticed that two of these samples are significantly higher than the direct contact RAG (4.5 pCi/g) for Strontium-90, including B07258 (45.6 pCi/g) and B07259 (174 pCi/g). Several of these samples are listed in the D-Ponds closure plan as ash samples unaffected by D-Ponds disposal activities (only metals data, not rad data, were reported in the closure plan). However, Strontium-90 is not a naturally occurring radionuclide. The 126-D-1 Ash disposal site has been rejected in WIDS and D-Ponds has been closed-out.

Alisa Huckaby and I visited the 126-D-1 ash disposal site and did not see any signage or postings, with the exception of a small rectangular area to the north, marked as a soil contamination area. We request further information in order to evaluate what actions should be taken with regards to any necessary postings and possible updates in WIDS. Initially, we would like to:

1. Understand the locations of the ash samples that exhibit the elevated strontium concentrations
2. Understand why the one area we saw was listed as a soil contamination area

Any help you could provide with this is much appreciated. Please give me a call if you have any questions. Thanks!

Jacqui

## **Attachment 12**

300 Area D4 Status  
May 10, 2007  
100/300 Area Combined Unit Manager Meeting

**Ongoing Hazardous Material Removal**

- 324
- 327
- 328
- 337
- 384
- 3706A
- 3709
- 3745

**Ready for Demolition:**

- 3718E
- 3745A/3745B
- 3720
- 306W

**Ongoing Demolition Activities**

- 333 – load out is complete (excluding press)
- 3731/3731A – demolished 5/9/07
- 3707-H – demolished on 5/3/07

**60-Day Project Look Ahead**

- Begin demolition of 3706/3706A, 3745/A/B, 3709, and 3719.
- Begin hazardous material removal at 321 and 308
- Address DOE and EPA comments on revision to RAWP #1 (consolidated scope from Action Memo #1, #2, and #3).
- Complete 305 and 305-B backfill

## **Attachment 13**

100 Area D4 Status  
May 10, 2007  
100/300 Area Combined Unit Manager Meeting

**Ongoing Demolition Activities**

- 163-N/183-N – Above and below grade demolition complete at 163-N. Below grade demolition at 183-N and load-out ongoing.
- MO-050/MO-358 – Above grade demolition complete.
- 1312-N LERF – Inlet piping removal ongoing, liner load-out ongoing.
- 107-N – Resin removal and grouting from tank T-5 complete.
- 13-N pad – Demolition ongoing.
- 1524-N – Mobilizing to investigate and remove casks.
- 105-N – Subcontractor erecting scaffolding to support asbestos removal.

**60-Day Project Look Ahead**

- 1705-N/NA and 1706-N/NA load-out.
- 182-N Asbestos/Hazardous waste removal.
- 184-N/NA Hazardous material removal.
- Remaining 1802N Pipe to be shipped to ERDF.
- MO-829 removal to ERDF.
- MO-055/MO-911 hazardous material removal and demolition.
- Complete load-out of MO-050 and MO-358.

## **Attachment 14**

(14)

**Donnelly, Jack W**

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**From:** Saueressig, Daniel G  
**Sent:** Monday, May 14, 2007 11:58 AM  
**To:** Donnelly, Jack W  
**Cc:** Erhart, Steven W  
**Subject:** FW: MO-829 DISPOSAL

Jack, here's the email that needs to be included in the UMM Minutes.

Dan Saueressig  
100 Area D4 Environmental  
373-5473 (office)  
521-5326 (cell)

-----Original Message-----

**From:** ^WCH Document Control  
**Sent:** Tuesday, April 24, 2007 7:26 AM  
**To:** Saueressig, Daniel G  
**Subject:** RE: MO-829 DISPOSAL

Dan. -

The CCN number will be 133246

Diana

-----Original Message-----

**From:** Saueressig, Daniel G  
**Sent:** Tuesday, April 24, 2007 5:56 AM  
**To:** ^WCH Document Control  
**Cc:** Nielson, Robert R; Mewes, Bradley D  
**Subject:** FW: MO-829 DISPOSAL

This email documents a regulatory approval. Please provide a chron #.

Thanks,

Dan Saueressig  
100 Area D4 Environmental  
373-5473 (office)  
521-5326 (cell)

-----Original Message-----

**From:** Bond, Rick (ECY) [mailto:FBON461@ECY.WA.GOV]  
**Sent:** Monday, April 23, 2007 12:55 PM  
**To:** Saueressig, Daniel G  
**Subject:** FW: MO-829 DISPOSAL

Dan,  
Looks like you're good to go.  
It's approved by Ecology since EPA (Dave Einan) says it's fine.  
Rick Bond

Facility Transition Project Manager  
Washington State Department of Ecology  
3100 Port of Benton Richland, WA99354  
(509) 372-7885  
e-mail: FBON461@ECY.WA.GOV

-----Original Message-----

**From:** Einan.David@epamail.epa.gov [mailto:Einan.David@epamail.epa.gov]



Sent: Monday, April 23, 2007 9:52 AM  
To: Bond, Rick (ECY)  
Subject: RE: MO-829 DISPOSAL

Rick--

I talked with the ERDF folks and I am OK with the proposal below.

Dave Einan

One hydrogen atom remarked, "I lost my electron." The second atom asked, "Are you sure?"  
The first replied, "Yes. I'm positive."

"Bond, Rick  
(ECY)"  
<FBON461@ECY.WA.  
GOV>

David Einan/R10/USEPA/US@EPA

To

cc

04/17/2007 12:09  
PM

Subject

RE: MO-829 DISPOSAL

Dave,  
Have you had a chance to look at this ERDF request. I'm sorry to put the pressure on you, but I'm deferring 100% to you. You say Ok and I say go.

Thanks,  
Rick

-----Original Message-----

From: Sauereissig, Daniel G [mailto:dgsauere@wch-rcc.com]  
Sent: Monday, April 02, 2007 10:16 AM  
To: Bond, Rick (ECY); Einan, David R  
Cc: Ayres, Jeff (ECY); Nielson, Robert R; Yasek, Donna M;  
Borden, Gregory J; Mewes, Bradley D  
Subject: MO-829 DISPOSAL

Rick/Dave, I've talked with both of you related to this trailer a month or so ago, but haven't had a chance to formally ask the question.

I'd like to discuss transport and disposal of a mobile office located at the 100-DR area to ERDF for disposal and request your approval for the proposed path forward. This trailer (MO-829) was used to support D&D of the reactor ancillary facilities and although not specifically discussed in the Action Memorandum, EE/CA or RAWP for 100-DR, there is potential for contamination related to this removal action due to biological vectors (mud daubers or rodents). Our radiological control organization has determined that to be able to survey and release the trailer from

a radiological perspective would be very difficult, requiring accessing any areas (under flashing, places where caulking is missing providing access to mud dauber nests, etc.) that could allow animal or insect intrusion. D4 has encountered other trailers that were thought to be clean until demolition allowed access to previously inaccessible areas that were contaminated. The EE/CA and the RAWP both discuss (Introduction) disposal of contaminated waste generated as a result of this removal action, and this mobile office could be considered contaminated waste eligible for ERDF disposal. WCH believes that disposal at ERDF is appropriate for this mobile office. The mobile office is currently sitting in 2 pieces near the 105-DR and is not connected to any utilities or foundation. Hazardous material removal will take place before the trailer is taken to ERDF and small amounts of hazardous materials may be temporarily stored in the 100N area pending shipment to either ERDF or the recycling center. Since the majority of our work force resides at 100N, I'm requesting that any hazardous material removed be managed at the 100N area and considered part of the CERCLA onsite area for the purposes of managing this waste prior to disposal. The only hazardous materials that may potentially be encountered are oils/greases, mercury switches, fluorescent lights, light ballasts, bio-hazards and potentially radiological contamination.

Current plans are to trailer the mobile office over to ERDF intact and demolish it in ERDF. WCH believes demolishing the office at ERDF is safer than demolishing and loading out the mobile office at 100-DR. 100-DR no longer has a functioning air monitoring network, while ERDF maintains various air monitors that would provide assurance that any potential spread of contamination would be monitored.

Rick, I discussed this earlier with you and you had no concerns, but you wanted to make sure Mr. Einar was aware and didn't have any problems with this proposal.

Can you both let me know if this acceptable to you? Thanks and please call if you have any questions.

Dan Saueressig  
100 Area D4 Environmental  
373-5473 (office)  
521-5326 (cell)

## **Attachment 15**

**End State and Final Closure  
Risk Assessment Status  
May 10, 2007**

**General Status**

**100/300 Area RCBRA Component**

- Work continues on completion of the 100 Area and 300 Area Component of the RCBRA. A workshop to discuss the draft risk assessment with Tri-Parties and stakeholders will be held on May 16, 2007. The web-based risk assessment data interface is available – Contact Steve Weiss for access.

**Inter-Areas**

- Sampling activities are in progress – Collection of riparian plants and invertebrates is underway. Other activities coming up this spring and summer include amphibian surveys, avian surveys, retrieval of rock baskets for aquatic invertebrate community structure evaluation, and collection of soil samples in T&E plant species habitat.

**Columbia River Component**

- A review and analysis of existing data compiled for the Columbia River Component is underway, to help identify gaps in data needed to evaluate potential risk. This evaluation will include QA/QC review of the data, mapping, conceptual model development, and proposal of potential data gaps. Early in June (planned for June 6, 2007) a workshop will be held to discuss the results. The workshop will be a lead-off point for further discussions on the path forward for filling data gaps.

**End State and Final Closure  
Orphan Sites Evaluation and Long-Term Stewardship Status  
May 10, 2007**

**General Status**

**Orphan Sites Evaluations**

- *100-D Area Orphan Sites Evaluation Report* (OSR-2006-0001) in Ecology review.
- 65% complete with field investigation for 100-IU-6.
- 100-K historical review is in early stages.

**Long-Term Stewardship**

- *Planning for the Transition to Long-Term Stewardship Under the River Corridor Closure Contract* (WCH-134) in regulator review.
- Process for conducting remedial action cost evaluations (Handout; action item).

**RCC End State and Final Closure Project**  
**Risk Assessment - Document and Involvement Look Ahead**  
 May-07

Task	Document	Activity	Status	Target Start Date	Regulator Review	Target End Date
100 & 300 Area Component	100 Area and 300 Area Component of the RCBRA	Risk Assessment Report in Development	In Progress	1-Apr-06	June 25 through Aug 8	22-Oct-07
Columbia River Component	Columbia River Component Data Gap Analysis	Developing gap analysis for June presentation	In Progress	20-Mar-07	Workshop Jun-07	2-Aug-07
Meetings/ Workshops		Trustee Call-in/Project Managers	Planned	10-May-07		
		Risk Assessment Project Managers	Planned	24-May-07		
		Trustee Call-in/Project Managers	Planned	14-Jun-07		
		Risk Assessment Project Managers	Planned	28-Jun-07		
		103 Area and 300 Area Risk Assessment Workshop	Planned	16-May-07	In Richland	

## **Attachment 16**

(16)

**Date:** May 10, 2007

**Project:** ESFC: Inter-Areas Component of the River Corridor Baseline Risk Assessment

**Agreement:**

Per Ecology's request, WCH will analyze for nitrates in vegetation at the following sites due to their location relative to nitrate plumes:

RCCBRA 2j Rip (between 100-H and F)

RCBRA 2c Rip (upriver of 100 K)

RCBRA 2l Rip (downriver of 100 F)

RCBRA 4a Rip (downriver of Hanford townsite)

RCBRA 5c Rip (downriver of ENW)



## **Attachment 17**

## RAR Cost Evaluation Process

The following information presents a summary of the approach and resources that are available to evaluate remedial action costs in support of Remedial Action Report development. The approach and resources are consistent with those used to summarize costs for the 300-FF-1 OU report (DOE/RL-2004-74).

1. Identify waste sites included in report.
2. Obtain actual start and completion dates for each waste site (excavation through loadout; backfill). If there was not continuous activity after the initial start, identify supplemental stop/start dates to cover large gaps.
3. Obtain actual waste disposal quantities for each waste site, separated into ERDF and each offsite disposal facility. Subdivide ERDF quantities into direct burial and treatment as applicable.
4. Obtain actual costs for WCH labor and materials based on location (waste site) and activity. Distribute non-specific location costs based on waste sites being worked during period of interest.
5. Obtain actual costs for remedial action subcontractor (labor, equipment, materials). Distribute costs based on waste sites and/or activities (e.g., backfill) being worked during performance period.
6. Obtain actual lab costs for sample analysis based on location (i.e. waste site).
7. Obtain average unit rates for transportation/disposal of direct burial waste and for various treatment methods (if applicable). Determine costs based on applicable waste quantities.
8. Obtain actual costs for offsite treatment/disposal based on location and unique waste stream (if applicable).

Item	Information Resources
Start/End Dates	Project schedule, CVP
Waste Disposal Quantities	Project shipment logs, ERDF receipt logs, waste profiles, CVP; subcontract documentation (workscope, invoices), offsite shipment records
Waste Treatment Quantities	Project shipment logs, ERDF receipt logs, waste profiles, CVP; subcontract documentation (workscope, invoices), offsite shipment records
Remedial Action Labor & Materials Costs (WCH)	P3/Cobra system reports by COA (location/activity)
Remedial Action Subcontract Costs	P3/Cobra system reports by COA (location/activity); subcontract documentation (workscope, invoices)
Laboratory Costs	P3/Cobra system reports by COA (location/activity); subcontract documentation (workscope, invoices)
ERDF treatment & disposal costs	Average unit rates for transportation/disposal and for treatment
Offsite treatment & disposal costs	P3/Cobra system reports by COA (location/activity); subcontract documentation (workscope, invoices)